SELF ASSESSMENT REPORT (SAR)
UNDERGRADUATE ENGINEERING PROGRAM
(TIER-II)

B.TECH- COMPUTER SCIENCE AND ENGINEERING
FIRST TIME ACCREDITATION

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Approved By AICTE, New Delhi, Affiliated to JNTUK, Kakinada)
Kapujaggarajupeta , VSEZ (Post), Visakhapatnam
Andhra Pradesh, India-530049
Email Id: viewprincipal@gmail.com, viewvizag2008@gmail.com
Phone No: +91-9133300357/351

Contents

Part-A

1 Name and Address of the Institution:

Vignan's Institute of Engineering for Women,
KapuJaggarajupeta,
Vadlapudi Post,
Gajuwaka,
Visakhapatnam-530046

2 Name and Address of Affiliating University:

Jawaharlal Nehru Technological University Kakinada
East Godavari District,
Kakinada, Andhra Pradesh- 533003

3 Year of establishment of the Institution **:** 2008

4 Type of the Institution **:** Affiliated

5 Ownership Status **:** Self financing

6 Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of Institutions	Year of Establishment	Programs of Study	Location
Vignan's Lara Institute of Technology & Science	2007	Technical	Vadlamudi, Guntur
Vignan's Nirula Institute of Technology & Science for	2008	Technical	Palakaluru, Guntur
Vignan's Institute of Technology & Science	1999	Technical	Deshmukhi, Hyderabad
Vignan's Institute of Technology & Aeronautical Engineering	2008	Technical	Deshmukhi, Hyderabad
Vignan's Institute of Management & Technology for	2008	Technical	Ghatkesar, Hyderabad
Vignan's Institute of Information Technology (VIIT)	2002	Technical	Duvvada, Vadlapudi Post, Visakhapatnam
Vignan Pharmacy College	2005	Pharmacy	Vadlamudi, Guntur
Vignan Institute of Pharmaceutical Sciences	1999	Pharmacy	Deshmukhi, Hyderabad
Vignan Institute of Pharmaceutical Technology	2006	Pharmacy	Duvvada, Visakhapatnam

7 Details of all the programs being offered by the institution under consideration:

Sl. No	Programme Name	Programme Applied Level	Start of Year	Initial Intake	Intake Increase	Current Intake	Accreditation status	Program for consideration	Program for Duration
1	B.Tech-Electronics and Communication Engineering	**UG**	2008	90	Yes	180	Applying first time	Yes	4 Yrs
2	B.Tech-Computer Science and Engineering	**UG**	2008	90	Yes	180	Applying first time	Yes	4 Yrs
3	B.Tech-Electrical and Electronics Engineering	**UG**	2008	60	Yes	120	Applying first time	Yes	4 Yrs
4	B.Tech-Information Technology	**UG**	2008	60	Yes	120	Applying first time	Yes	4 Yrs
5	B.Tech-Mechanical Engineering	**UG**	2010	60	No	60	Not eligible for accreditation	No	4 Yrs
6	M.Tech- ECE-Digital Electronics and Communication Systems	**PG**	2013	18	No	9	Not eligible for accreditation	No	2 Yrs
7	M.Tech- ECE-VLSI Design & Embedded Systems	**PG**	2013	18	No	9	Not eligible for accreditation	No	2 Yrs
8	M.Tech-Computer Science and Engineering	**PG**	2011	18	No	9	Not eligible for accreditation	No	2 Yrs
9	M.Tech-EEE-Power and Industrial Drives	**PG**	2014	18	No	9	Not eligible for accreditation	No	2 Yrs
10	M.Tech-ME CAD/CAM	**PG**	2014	18	No	9	Not eligible for accreditation	No	2 Yrs
11	Master of Business Administration	**PG**	2009	60	Yes	120	Not applying for accreditation	No	2 Yrs

8 Programs to be considered for Accreditation vide this application:

Sl.No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Electronics and Communication Engineering
2	Under Graduate	Engineering & Technology	Computer Science and Engineering
3	Under Graduate	Engineering & Technology	Electrical and Electronics Engineering
4	Under Graduate	Engineering & Technology	Information Technology

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2020-21		2019-20		2018-19		2017-18	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	69	83	77	77	81	83	95	97
Faculty in Engineering (Female)	56	68	56	57	57	58	58	60
Faculty in Maths, Science & Humanities (Male)	18	19	24	25	22	23	30	31
Faculty in Maths, Science & Humanities (Fe-Male)	13	16	24	25	26	27	26	28
Non-Teaching Staff (Male)	34	32	50	52	43	46	45	48
Non-Teaching Staff (Fe-Male)	51	59	58	60	56	58	53	56

B. Contractual* Employees (Faculty and Staff):

items	2020-21		2019-20		2018-19		2017-18	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	0	0	0	0	0	0
Faculty in Engineering (Female)	0	0	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (Male)	0	0	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (Female)	0	0	0	0	0	0	0	0

Non-teaching staff (Male)	0	0	0	0	0	0	0	0
Non-teaching staff (Female)	0	0	0	0	0	0	0	0

10 Total number of Engineering Students:

Engineering and Technology- UG Shift-1

Course Name	2020-21	2019-20	2018-19	2017-18
Total no. of Boys	0	0	0	0
Total no. of Girls	2387	2248	2299	2198

Engineering and Technology- PG Shift-1

Course Name	2020-21	2019-20	2018-19	2017-18
Total no. of Boys	0	0	0	0
Total no. of Girls	3	2	6	8

Engineering and Technology- MBA Shift-1

Course Name	2020-21	2019-20	2018-19	2017-18
Total no. of Boys	0	0	0	0
Total no. of Girls	102	114	150	151

11 Vision of the Institution:

To be a leading institution of women empowerment, producing internationally accepted professionals with psychological strength, emotional balance and ethical values.

12 Mission of the Institution:

M1: To empower women engineers through innovative teaching-learning practices.

M2: To encourage for higher education and research with well equipped laboratories.

M3: To promote entrepreneurship through creativity and innovation.

M4: To promote environmental sustainability and inculcate ethical, emotional and social consciousness.

Appropriateness/Relevance of the Statements:

There has been an emerging need in the local society for providing an exclusive time and space for girls in technical education. Addressing this socio and economic concerns of the society, The Institute is established with total women empowerment as its chief motto. The aim is to provide competent women technical power keeping the demands of the industry along with providing a robust economic boost to the family in the form of a technically educated and trained woman professional. Apart from these aims the college has kept its vision on simultaneously equipping the girl students physically fit, psychologically strong to face the challenges in the society.

The activities are planned in such a way that the girl gets transformed into a competent and complete woman with technical expertise, self-reliance, psychological strength, emotional balance, ethical values and social consciousness. Setting highest ethical standards at all aspects of college activity the girl is imbued with right kind of moral attitude. Overall, the Vision and Mission statements are to transform the girl into a complete woman through the comprehensive cycle of change at the Institute.

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution

Name	Dr. Sudhakar Jyothula
Designation	Principal
Mobile No.	9052066699
Email ID	viewprincipal@gmail.com

NBA Coordinator, If Designated

Name	Dr.V.Ananda Babu
Designation	Associate Professor
Mobile No.	9948125843
Email ID	varadalaanand@gmail.com

CRITERION 1	Vision, Mission and Program Educational Objectives	60

1.1	State the Vision and Mission of the Department and Institute	5M
1.2	State the Program Educational Objectives (PEOs)	5M
1.3	Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders	10M
1.4	State the process for defining the Vision and Mission of the Department, and PEOs of the program	25M
1.5	Establish consistency of PEOs with Mission of the Department	15M

CRITERION 1	Vision, Mission and Program Educational Objectives	60

1. Vision, Mission and Program Educational Objectives (60)

1.1. State the Vision and Mission of the Department and Institute (5)

(Vision statement typically indicates aspirations and Mission statement states the broad approach to achieve aspirations)

(Here Institute Vision and Mission statements have been asked to ensure consistency with the department Vision and Mission statements; the assessment of the Institute Vision and Mission will be taken up in Criterion 10)

Vision of the Institute

To be a leading institution of women empowerment producing internationally accepted professionals with psychological strength, emotional balance and ethical values

Mission of the Institute

M1: To empower women engineers through innovative teaching learning practices.

M2: To encourage for higher education and research with well-equipped laboratories.

M3: To promote entrepreneurship through creativity and innovation.

M4: To promote environmental sustainability and inculcate ethical, emotional and social consciousness.

Vision of the Department

To evolve into a centre of excellence and to empower women in emerging areas of Computer Science and Engineering with human values

Mission of the Department

M1: To train students to analyze, design, develop and test software applications.

M2: To impart technical expertise in sustaining the needs of the IT industry.

M3: To foster research activities and entrepreneurial skills in emerging technologies.

M4: To inculcate lifelong learning skills inline with technological advancement and social consciousness.

1.2. State the Program Educational Objectives (PEOs) (5)

(State the PEOs (3 to 5) of program seeking accreditation)

The educational objectives of the Computer Science and Engineering program are the statements that are designed based on the Program Outcomes, Vision and Mission of the Department. The PEOs are the expected achievements of the graduates in their career during the first few years after graduation.

Graduates are able to

PEO1: Lead the diverse range of careers in IT sectors and initiate entrepreneurship in software development.

PEO2: Excel in higher studies and research in emerging areas of Computer Science Engineering.

PEO3: Possess continuous learning by adapting to technological trends to help society with ethical values.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

(Describe where (websites, curricula, posters etc.) the Vision, Mission and PEOs are published and detail the process which ensures awareness among internal and external stakeholders with effective process implementation)

(Internal stakeholders may include Management, Governing Board Members, faculty, support staff, students etc. and external stakeholders may include employers, industry, alumni, funding agencies, etc.)

The Vision, Mission and PEOs are published and disseminated among various stakeholders to ensure awareness. The stakeholders include parents, faculty, Governing body members, students, employers, industry, alumni, funding agencies, etc. The modes and occasions of this process are detailed below.

The Vision and Mission of the Institute are published at:

- Institute Website
- Institute Newsletter
- Institute Brochure
- Placement Brochure
- Course File

- Assignment Books
- Lab Manuals
- Student Mentoring Books

The Vision and Mission of the Institute are disseminated through:

- Workshops
- Seminars
- Guest Lectures
- Faculty Development Programs
- Technical Events
- First-Year Orientation Program
- Alumni Meetings

The Vision and Mission of the Institute are displayed at:

- Principal's Chamber
- HoD Chamber
- Administration Office
- Central Library
- Seminar hall
- Canteen
- Hostel
- Training and Placement cell
- Notice Boards
- Classrooms
- Laboratories

The Vision, Mission of the Department and PEOs of the program are published at:

- Institute Website
- Department Course Website
- Department Newsletter
- Course Files
- Lab Manuals
- Assignment Books
- Student Mentoring Books
- Department Placement Brochure

The Vision, Mission of the Department and PEOs of the program are disseminated through

- Workshops
- Seminars
- Guest Lectures
- Faculty Development Programmes
- Technical Events
- Department Association Activities
- First-Year Orientation Program
- Alumni Meetings

The Vision, Mission of the Department and PEOs of the program are displayed at

- HoD Chamber
- Classrooms
- Staff rooms
- Laboratories
- Notice Boards
- Department Library
- Seminar hall

1.4. State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

(Articulate the process for defining the Vision and Mission of the department and PEOs of the program)

A. Description of process involved in defining the Vision, Mission of the Department (10)

Department of Computer Science and Engineering defined its Vision and Mission by involving all the stakeholders. The stakeholders include parents, faculty, students, employers, industry, alumni etc.

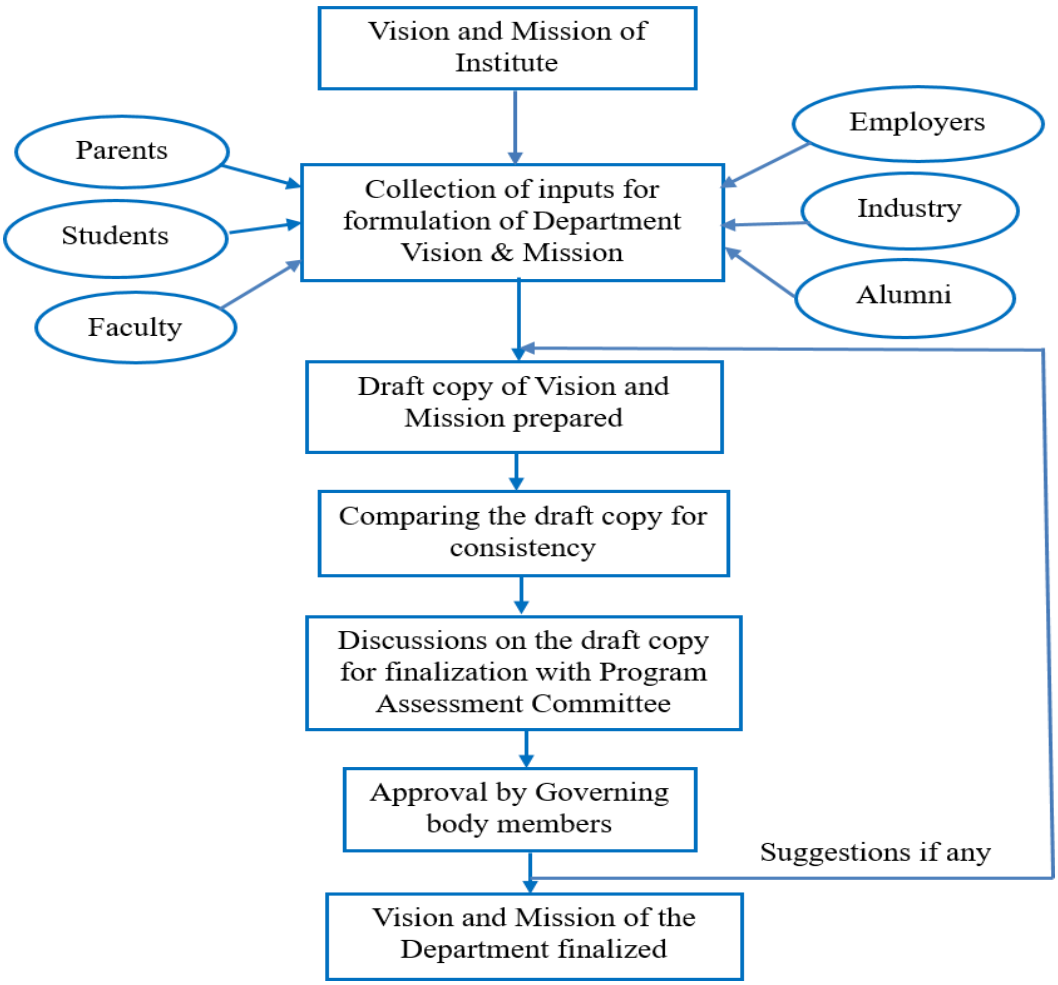


Figure B.1.4.a: Flowchart for process of defining Vision and Mission of the Department

The process for defining the Vision and Mission of the department is as follows.

Step 1: The Head of the department as a chairman constitutes a panel with three senior faculty members for formulating the draft copy of department Vision and Mission.

Step 2: The panel collects the inputs from stakeholders and prepares the draft copy inline with the Vision and Mission of the institute and Program Outcomes defined by the NBA.

Step 3: The draft copy of Vision and Mission is compared to check the consistency keeping Vignan's Group as benchmark.

Step 4: The panel discuss with the Program Assessment Committee for finalization of the draft copy through brainstorming and modifications reflected.

Step 5: The finalized draft copy is sent for approval of the Governing body and suggestions are incorporated if any by repeating from Step 2.

Step 6: The approved Vision and Mission of the department are displayed, published and disseminated among the stakeholders.

B. Description of process involved in defining the PEOs of the program (15)

Process for defining the PEOs of the Program

Department of Computer Science and Engineering defined its Program Educational Objectives (PEOs) by involving all the stakeholders. The stakeholders include parents, faculty, students, employers, industry, alumni etc.

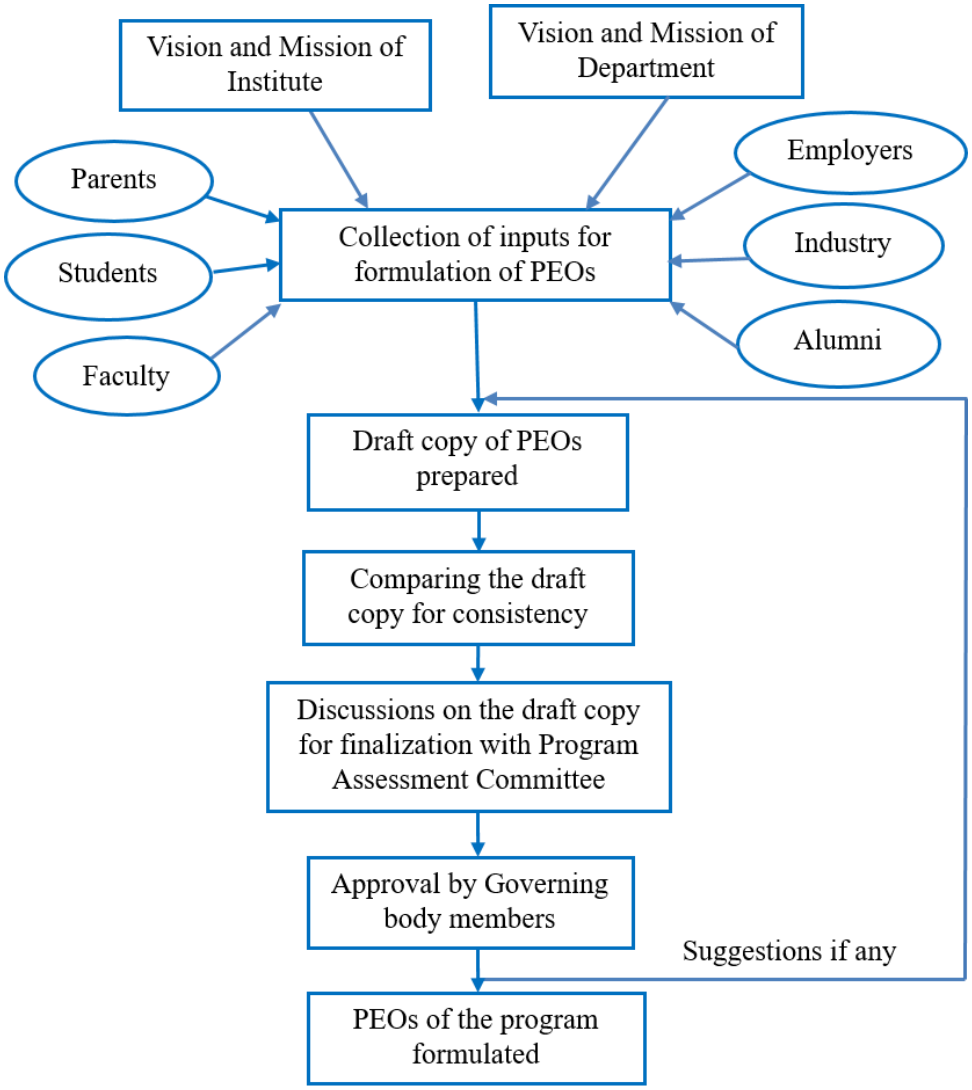


Figure B.1.4.b: Flowchart for process of defining PEOs of the program

The process for defining the Program Educational Objectives adopts the following sequence of steps.

Step 1: The Head of the Department as a Chairman constitutes a panel with three senior faculty members for formulating the draft copy of Program Educational Objectives of the Program.

Step 2: The panel collects the inputs from stakeholders and prepares the draft copy in accordance with the Vision and Mission of the Institute, Vision and Mission of the Department and Program Outcomes defined by NBA.

Step 3: The draft copy of PEOs of the program is compared to check the consistency by keeping Vignan's Group as benchmark.

Step 4: The panel after a brainstorming session with the Program Assessment Committee reflects on the modifications and finalizes the draft copy.

Step 5: The finalized draft copy is forwarded to Governing body for approval and suggestions are incorporated if any by repeating from Step 2.

Step 6: The approved PEOs of the program are displayed, published and disseminated among the stakeholders.

1.5. Establish consistency of PEOs with Mission of the Department (15)

(*Generate a "Mission of the Department – PEOs matrix" with justification and rationale of the mapping*)

Mission of the Department- PEO Matrix

PEOs Graduates are able to	**M1 Technical skills**	**M2 Sustainability**	**M3 Research & Entrepreneurial skills**	**M4 Lifelong learning, social consciousness**
PEO 1: lead the diverse range of careers in IT sector and initiate entrepreneurship in software development.	**3**	**3**	**2**	**2**
PEO 2: excel in higher studies and research in emerging areas of Computer Science Engineering.	**3**	**3**	**3**	**2**
PEO 3: possess continuous learning by adapting to technological trends to help society with ethical values.	**2**	**2**	**3**	**3**

Table B.1.5: Mapping of Department Missions with PEOs

M1: To train students to analyze, design, develop and test software applications.

M2: To impart technical expertise in sustaining the needs of the IT industry

M3: To foster research activities and entrepreneurial skills in emerging technologies.

M4: To inculcate lifelong learning skills inline with technological advancement and social consciousness.

Justification and rationale – mapping

PEO1 –M1: PEO1 has high correlation with **M1** as the students are trained to lead their careers in IT sector and entrepreneurship in software development.

PEO1 –M2: PEO1 has high correlation with **M2** while the students show expertise with latest technologies to sustain the needs of the IT industry**.**

PEO1 –M3: PEO1 has moderate correlation with **M3.** PEO1 focuses on career and entrepreneurship whereas M3 focuses on the motivation of students to pursue their career in research and develop entrepreneurial skills.

PEO1 –M4: PEO1 is moderately correlated with **M4** because PEO1 moderately focuses on lifelong learning skills and social consciousness.

PEO2 –M1: PEO2 is strongly correlated with **M1.** PEO2 focuses on higher studies and research activities which are strongly correlated with careers in the IT sector and entrepreneurship in software development.

PEO2 –M2: PEO2 which focuses on higher studies and research activities is strongly correlated with **M2** defined on technical knowledge to sustain the needs of the IT industry.

PEO2 –M3: PEO2 has high correlation with **M3** because the students are encouraged for higher studies and research activities to develop entrepreneurial skills**.**

PEO2 –M4: PEO2 which focuses on higher studies and research activities is moderately correlated with **M4** that focuses on lifelong learning skills and social consciousness.

PEO3 –M1: PEO3 which focuses on continuous learning by adapting to technological trends is moderately correlated with **M1,** where M1 focuses on training students to design and develop software applications.

PEO3 –M2: PEO3 which states continuous learning by adapting to technological trends is moderately correlated with **M2** which focuses on continuous learning in technical expertise to meet the needs of IT industry.

PEO3 –M3:PEO3 has high correlation with **M3** because PEO3 focuses on continuous learning and M3 focuses on research activities and entrepreneurial skills.

PEO3 –M4: PEO3 has high correlation with **M4** as the students are motivated towards continuous learning by adapting to advances in technology.

CRTERION 2	**Program Curriculum and Teaching- Learning Processes**	**120**
2.1	Program Curriculum	20 M
2.2	Teaching-Learning Process	100 M

2. PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

2.1 Program Curriculum (20)

2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

Vignan's Institute of Engineering for women (VIEW) is affiliated to Jawaharlal Nehru Technological University, Kakinada (JNTUK) and hence the syllabus/curriculum prescribed by the university is followed. JNTUK is one of the oldest (estd.1946) technological universities, in Kakinada, East Godavari district focusing on engineering and among the top ranking (NIRF 2018: 97) universities in the country. A systematic methodology is followed by JNTUK in preparing the curriculum not only by taking the feedback from the Board of Studies (BoS) but also from professors and principals of affiliated colleges.

It also obtains the guidelines from AICTE and revises the curriculum once in three years to meet the needs of the industry. The Curriculum of the CSE program by JNTUK maintains balance in the composition of courses categorized as Basic Sciences and Humanities, Management courses, Engineering Sciences, Professional core and elective courses, Seminar and Project work. The program runs R20 Regulation from 2020 admitted batch, R19 regulation for 2019, R16 regulation for 2018, 2017 & 201

6 admitted batches and R13 regulation for 2015, 2014 & 2013 admitted batches. The following Table B.2.2.1a shows the regulation followed for the four academic years to the students in their respective year of study.

Year	I	II	III	IV
2020-21	R20	R19	R16	R16
2019-20	R19	R16	R16	R16
2018-19	R16	R16	R16	R13
2017-18	R16	R16	R13	R13

Table: B.2.1.1a Regulation followed for respective year of study

The number of courses in R13, R16 and R19 regulation is tabulated in Table: B.2.1.1b. and compared in Figure: B.2.1.1a.

Sl. No.	Types of Courses	R13 Regulation		R16 Regulation		R19 Regulation	
		No. of Courses	Percentage Contribution	No. of Courses	Percentage Contribution	No. of Courses	Percentage Contribution
1	Humanities Sciences including Management Courses (HS)	8	12%	8	12%	5	7%
2	Basic Sciences (BS)	7	10%	7	10%	8	12%
3	Engineering Sciences (ES)	4	6%	3	5%	8	12%
4	Professional Core Courses (CS)	41	60%	41	61%	28	41%
5	Professional Electives (CS*)	4	4%	3	3%	5	7%
6	Open Subjects-Electives (OE)	0	0%	1	2%	3	4%
7	Project Work and Seminar	3	6%	2	4%	5	7%
8	Non- Credit Based (NCB)	1	2%	2	3%	7	10%
	Total	**68**	**100%**	**67**	**100%**	**69**	**100%**

Table: B.2.1.1b Contribution of course modules to the program curriculum

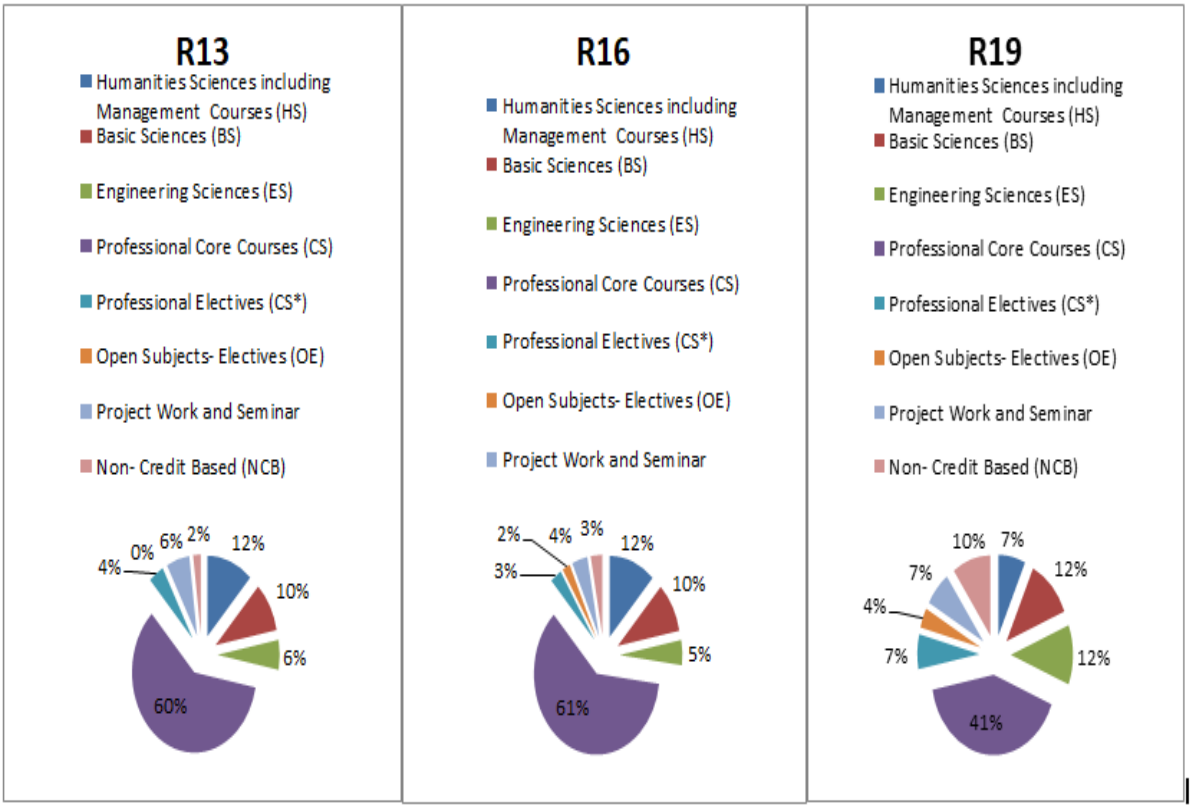


Figure: B.2.1.1.a Course Modules for CSE Program in R13, R16 and R19 Regulation

The curriculum is designed by the university with total credits of 180 for a student to be eligible to get an undergraduate degree in Computer Science and Engineering as recommended by the AICTE shown in Table: B.2.2.1.c, Table: B.2.2.1.d.

S. No	Course modules	Credits recommended by AICTE	Credits as per University Curriculum (R19)
1.	Humanities Sciences including Management Courses (HS)	12	12.5
2.	Basic Science Courses (BS)	24	21
3.	Engineering Science Courses (ES)	29	19
4.	Professional Core Courses (PS)	49	71.5
5.	Professional Elective courses (CS)	18	15
6.	Open subjects- Electives (OE)	12	9
7.	Project Work, Seminar, and internship in industry or elsewhere	15	12
8.	Mandatory Courses (NCB)	(Non – Credit)	-
	Total	159*	160

Table: B.2.1.1.c R19 Curriculum compliance with AICTE

Sl. No.	Course Modules	Credits recommended by AICTE	Credits as per University Curriculum (R16)	Credits as per University Curriculum (R13)
1	Humanities Sciences including Management Courses (HS)	14	22	22
2	Basic Sciences (BS)	31	19	22
3	Engineering Sciences (ES)	24	6	8
4	Professional Core Courses (CS)	60	109	105
5	Professional Electives (CS*)	18	9	12
6	Open Subjects- Electives (OE)	9	3	0
7	Project Work, Seminar and/or Internship	20	12	11
	TOTAL	**176**	**180**	**180**

Table: B.2.1.1.d R16, R13 Curriculum compliance with AICTE

In comparison from Table B.2.1.1.c, Table B.2.1.1.d, it is very clear that the number of courses provided by the university is in compliance with AICTE. The instructional hours required, credits for the course for the categorized courses for R19, R16 and R13 regulation are tabulated in Table B.2.1.1.e as follows:

Basic Sciences (BS) Courses forR19					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C102	Mathematics – I	3	0	0	3
C103	Applied Chemistry	3	0	0	3
C107	Applied Chemistry Laboratory	0	0	3	1.5
C110	Mathematics – II	3	0	0	3
C111	Mathematics – III	3	0	0	3
C112	Applied Physics	3	0	0	3
C115	Applied Physics Lab	0	0	3	1.5
C211	Probability and Statistics	3	0	0	3

Engineering Sciences (ES) Courses for R19					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C104	Fundamentals of Computer Science	3	0	0	3
C105	Engineering Drawing	0	0	3	2.5
C108	IT Workshop	0	0	3	1.5
C113	Programming for Problem Solving using C	3	0	0	3

C114	Digital Logic Design	3	0	0	3
C117	Programming for Problem Solving using C Lab	0	0	3	1.5
C203	Python Programming	3	0	0	3
C207	Python Programming Lab	0	0	3	1.5

Computer Science (CS) Courses for R19					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C201	Mathematical Foundations of Computer Science	3	1	0	4
C202	Software Engineering	3	0	0	3
C204	Data Structures	3	0	0	3
C205	Object Oriented Programming through C++	3	0	0	3
C206	Computer Organization	3	0	0	3
C208	Data Structures through C++ Lab	0	0	3	1.5
C212	Java Programming	2	1	0	3
C213	Operating Systems	3	0	0	3
C214	Database Management Systems	3	1	0	4
C215	Formal Languages and Automata Theory	3	0	0	3
C216	Java Programming Lab	0	0	3	1.5
C217	UNIX Operating Systems Lab	0	0	2	1
C218	Database Management Systems Lab	0	0	3	1.5
C301	Data Warehousing and Data Mining	3	0	0	3
C302	Computer Networks	3	0	0	3
C303	Compiler Design	3	0	0	3
C304	Artificial Intelligence	3	0	0	3
C306	Computer Networks Lab	0	0	2	1
C307	AI Tools & Techniques Lab	0	0	3	1.5
C308	Data Mining Lab	0	0	3	1.5
C310	Web Technologies	3	0	0	3
C311	Distributed Systems	3	0	0	3
C312	Design and Analysis of Algorithms	3	0	0	3
C316	Web Technologies Lab	0	0	4	2
C401	Cryptography and Network Security	3	0	0	3
C402	UML and Design Patterns	3	0	0	3
C403	Machine Learning	3	0	0	3

C407	UML Lab	0	0	2	1

Professional Electives (PE*) Courses for R19					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C305	Professional Elective -I	3	0	0	3
C313	Professional Elective -II NPTEL/ SWAYAM	3	0	0	3
C405	Professional Elective -III	3	0	0	3
C406	Professional Elective -IV	3	0	0	3
C412	Professional Elective -V	3	0	0	3

Seminar and Project Work for R19					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	P	**C**
C118	Engineering Exploration Project	0	0	2	1
C220	Socially Relevant Project*	0	0	2	1
C317	Industrial Training/ Skill Development Programmes/ Research Project in Higher Learning Institutes	0	0	0	1
C408	Project – I	0	0	0	2
C413	Project – II	0	0	0	7

Open Subjects- Electives (OE) Courses for R19					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	P	**C**
C314	Open Elective-I	3	0	0	3
C404	Open Elective-II	3	0	0	3
C411	Open Elective-III	3	0	0	3

Humanities Sciences including Management Courses (HS) for R19					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	P	**C**
C101	English – I	3	0	0	3
C106	English Lab	0	0	3	1.5
C116	Communication Skills Lab	0	1	2	2
C315	Managerial Economics and Financial Analysis	3	0	0	3
C410	Management and Organizational Behaviour	3	0	0	3

Mandatory / Non- Credit Based Courses (NCB) for R19					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	P	**C**
C109	Environmental Science	3	0	0	0
C119	Constitution of India	3	0	0	0
C209	Essence of Indian Traditional Knowledge	2	0	0	0
C210	Employability Skills- I*	2	0	0	0
C219	Professional Ethics and Human Values	3	0	0	0
C309	Employability Skills – II*	2	0	0	0
C409	IPR & Patents	3	0	0	0

Humanities Sciences including Management Courses (HS) for R16					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C101	English – I	4	-	-	-
C107	English - Communication Skills Lab – 1	-	-	3	2
C111	English – II	4	-	-	3
C116	Environmental Studies	4	-	-	3
C118	English - Communication Skills Lab – 2	-	-	3	2
C201	Statistics with R Programming	4	-	-	3
C404	Managerial Economics and Financial Analysis	4	-	-	3
C410	Management Science	4	-	-	3

Basic Sciences (BS) Courses forR16					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C102	Mathematics – I	4	-	-	3
C103	Mathematics – II (Mathematical Methods)	4	-	-	3
C104	Applied Physics	4	-	-	3
C108	Applied / Engineering Physics Lab	-	-	3	2
C112	Mathematics – III	4	-	-	3
C113	Applied Chemistry	4	-	-	3
C118	Applied / Engineering Chemistry Laboratory	-	-	3	2

Engineering Sciences (ES) Courses for R16					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C106	Engineering Drawing	4	-	-	3
C116	Engineering Mechanics	4	-	-	3

Professional Core Electives (CS) Courses for R16					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C105	Computer Programming	4	-	-	-
C110	Computer Programming Lab	-	-	3	2
C114	Object Oriented Programming through C++	4	-	-	-
C119	Object Oriented Programming Lab	-	-	3	2
C202	Mathematical Foundations of Computer Science	4	-	-	3
C203	Digital Logic Design	4	-	-	3
C204	Python Programming	4	-	-	3
C205	Data Structures through C++	4	-	-	3
C206	Computer Graphics	4	-	-	3
C207	Data Structures through C++ Lab	-	-	3	2
C208	Python Programming Lab	-	-	3	2
C209	Software Engineering	4	-	-	3
C210	Java Programming	4	-	-	3
C211	Advanced Data Structures	4	-	-	3
C212	Computer Organization	4	-	-	3
C213	Formal Languages and Automata Theory	4	-	-	3
C214	Principles of Programming Languages	4	-	-	3
C215	Advanced Data Structures Lab	-	-	3	2
C216	Java Programming Lab	-	-	3	2
C301	Compiler Design	4	-	-	3
C302	Unix Programming	4	-	-	3
C303	Object Oriented Analysis and Design using UML	4	-	-	3
C304	Database Management Systems	4	-	-	3
C305	Operating Systems	4	-	-	3

C306	Unified Modelling Lab	-	-	3	2
C307	Operating System & Linux Programming Lab	-	-	3	2
C308	Database Management System Lab	-	-	3	2
C310	Computer Networks	4	-	-	3
C311	Data Warehousing and Mining	4	-	-	3
C312	Design and Analysis of Algorithms	4	-	-	3
C313	Software Testing Methodologies	4	-	-	3
C315	Network Programming Lab	-	-	3	2
C316	Software Testing Lab	-	-	3	2
C317	Data Warehousing and Mining Lab	-	-	3	2
C401	Cryptography and Network Security	4	-	-	3
C402	Software Architecture & Design Patterns	4	-	-	3
C403	Web Technologies	4	-	-	3
C407	Software Architecture& Design Patterns Lab	-	-	3	2
C408	Web Technologies Lab	-	-	3	2
C409	Distributed Systems	4	-	-	-
C411	Machine Learning	4	-	-	-

Professional Electives (CS*) Courses for R16					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C405	Bigdata Analytics	4	-	-	3
C406	Cloud Computing	4	-	-	3
C412	Concurrent and Parallel Programming	4	-	-	3

Open Subjects- Electives (OE) Courses for R16					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C314	Artificial Intelligence	4	-	-	3

Seminar and Project Work for R16					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C413	Seminar	-	3	-	2
C414	Project	-	-	-	10

Humanities Sciences including Management Courses (HS) for R13				
Course Code	**Name of the Course**	**Instructional Hours & Credits**		
		T	**P**	**C**
C101	English – I	3+1	-	3
C106	Environmental Studies	3+1	-	3
C108	English - Communication Skills Lab – I	-	3	2
C110	English – II	3+1	-	3
C114	Professional Ethics and Human Values	3+1	-	3
C116	English - Communication Skills Lab – II	-	3	2
C201	Managerial Economics and Financial Analysis	4	-	3
C210	Probability and statistics	4	-	3
C413	Management Science	4	-	3

Basic Sciences (BS) Courses forR13				
Course Code	**Name of the Course**	**Instructional Hours & Credits**		
		T	**P**	**C**
C102	Mathematics –I	3+1	-	3
C103	Engineering Chemistry	3+1	-	3
C107	Engineering Chemistry Laboratory	-	-	2
C111	Mathematics – II (Mathematical Methods)	3+1	-	3
C112	Mathematics – III	3+1	-	3
C113	Engineering Physics	3+1	-	-
C117	Engineering Physics Lab	-	-	2

Engineering Sciences (ES)Courses forR13				
Course Code	**Name of the Course**	**Instructional Hours & Credits**		
		T	**P**	**C**
C104	Engineering Mechanics	3+1	-	3
C115	Engineering Drawing	3+1	-	3
C119	Engineering Workshop and IT Workshop	-	-	2

Professional Core (CS) Courses for R13				
Course Code	**Name of the Course**	**Instructional Hours & Credits**		
		T	**P**	**C**
C105	Computer Programming	3+1	-	-
C109	C Programming Lab	-	3	2
C202	Object Oriented Programming through C++	4	-	3
C203	Mathematical Foundations of Computer Science	4	-	3
C204	Digital Logic Design	4	-	3
C205	Data Structures	4	-	3
C206	Object Oriented Programming Lab	-	3	2
C207	Data Structures Lab	-	3	2
C208	Digital Logic Design Lab	-	3	2
C211	Java Programming	4	-	3
C212	Advanced Data Structures	4	-	3
C213	Computer Organization	4	-	3
C214	Formal Languages and Automata Theory	4	-	3
C215	Advanced Data Structures Lab	-	3	2
C216	Java Programming Lab	-	3	2
C217	Free Open-Source Software (FOSS) Lab	-	3	2
C301	Compiler Design	4	-	3
C302	Data Communication	4	-	3
C303	Principles of Programming Languages	4	-	3
C304	Database Management Systems	4	-	3
C305	Operating Systems	4	-	3
C306	Compiler Design Lab	-	3	2
C307	Operating Systems/ Linux Programming Lab	--	3	2

C308	Database Management Systems Lab	--	3	2
C310	Computer Networks	4	-	3
C311	Data Ware housing and Mining	4	-	3
C313	Software Engineering	4	-	3
C313	Design and Analysis of Algorithms	4	-	3
C314	Web Technologies	4	-	3
C315	IPR and Patents	2	--	2
C316	Computer Networks Lab	-	3	2
C317	Software Engineering Lab	-	3	2
C318	Web Technologies Lab	-	3	2
C401	Cryptography and Network Security	4	-	3
C402	UML & Design Patterns	4	-	3
C403	Mobile Computing	4	-	3
C406	UML & Design Patterns Lab	-	3	2
C407	Mobile Application Development Lab	-	3	2
C408	Software Testing Lab	-	3	2
C409	Hadoop & Big Data Lab	-	3	2
C412	Distributed Systems	4	-	3

Seminar Presentation and Project Work for R13				
Course Code	**Name of the Course**	**Instructional Hours & Credits**		
		T	**P**	**C**
C209	Seminar– I	-	-	1
C309	Seminar– II	-	-	1
C414	Project	-	-	9

Mandatory/ Non-Credit Based Courses for R13					
Course Code	**Name of the Course**	**Instructional Hours & Credits**			
		L	**T**	**P**	**C**
C118	Engineering Physics – Virtual Labs– Assignments	-	-	2	-

Table B.2.1.1.e: Course Modules for CSE Program

The PSOs are listed below in the following Table B.2.1.1f

Sl. No.	Program Specific Outcome
PSO1	Graduates exhibit knowledge of basic sciences, skills in engineering specialization like information security, cloud computing, networking, software engineering and data analytics.
PSO2	Graduates can adapt to evolving technologies for the design and development of full-stack applications in diversified fields with optimal programming skills.

Table: B.2.1.1.f List of PSOs

A. Process used to identify the extent of compliance of university curriculum for attaining POs and PSOs

Tools Used:

The tools used to identify the curriculum gaps every academic year to meet POs and PSOs are categorized as internal and external tools as shown in Figure: B.2.1.1.b. The internal tools are COs, POs and PSOs assessment and the external tools are the feedbacks collected from various stakeholders.

I. External Tools:

Stakeholders' feedback: For continuous curriculum improvement as an affiliated institution, feedback from all the stakeholders is taken at the end of every year. This will be considered for revising the gaps in the curriculum. The following are the indications for the feedback from the stakeholders.

i. Outgoing Students feedback: In order to improve the Teaching-Learning Process (TLP) and gaps of the curriculum, the student feedback system is used to share their feedback on the curriculum.

ii. Alumni Feedback: Feedback is collected from alumni students by inviting them once a year for the alumni meet by the Alumni Association (AA). In order to bring awareness to the skill demands of the IT industry, the alumni students are suggested to share their current job experiences and current trends in recruitment with their juniors.

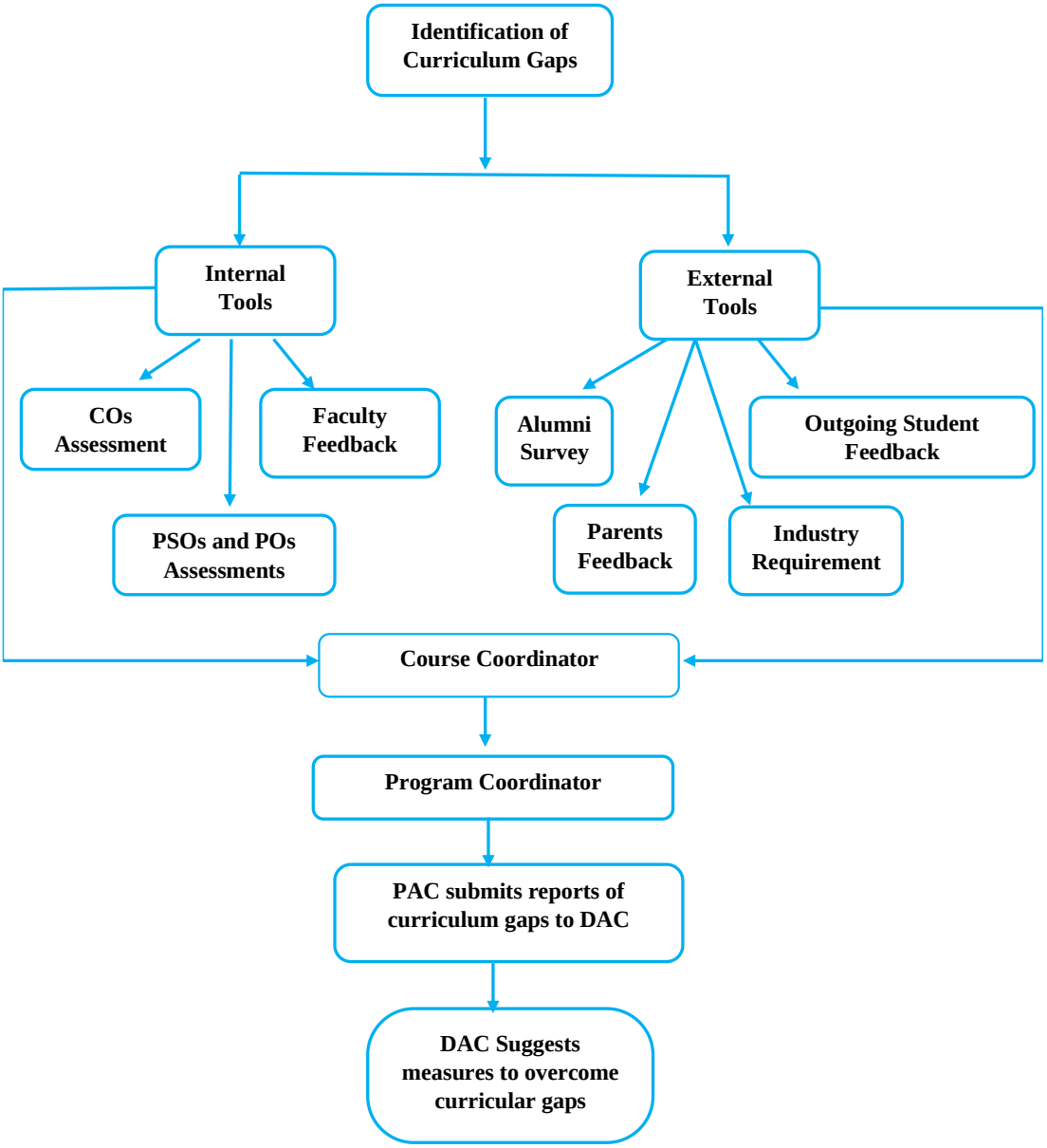


Figure: B.2.1.1.b Tools and process for Identification of Curricular gaps

iii. Parents Feedback: The institute organizes parents meet twice every semester and tries to adopt the suggestions given by the parents.

iv. Employers Feedback: Once the student passes out of the institution and gets employed in another organization, Alumni Association (AA) takes care of his/her employer's feedback for a healthy relationship with the other organization. The campus placement officer interacts with officials from Industry who visit for recruitment and obtain their feedback.

The gap identification through Stakeholder feedback is represented in Table B.2.1.1.g

Sl. No.	Stakeholder	Gap Identification
1	Outgoing Students	Lack of coding skills on software's currently used in the industry.
2	Alumni	Exposure to new technologies used in the industry. Students should be credited to co-curricular activities, like motivating students that will encourage students to divert part of their time in research and development.
3	Parent	Inadequate communication skills to acquire employability
4	Employer	Inadequate aptitude and technical skills to solve complex engineering problems

Table B.2.1.1.g: Gap Identification through Stakeholder Feedback

II. Internal Tools:

The courses are mapped with POs and PSOs that help to identify the extent of curriculum compliance and take necessary action to fulfil the identified curriculum gaps. The mapping of the curriculum courses to Program Outcomes & Program Specific Outcomes for R13 Regulation is provided in **TableB.2.1.1.h** for R16 Regulation is provided in **TableB.2.1.1.j .**

Sl. No.	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	C101	English – I	-	-	-	-	-	2.00	2.00	2.00	2.00	3.00	2.00	3.00	2.00	-
2	C102	Mathematics - I	3.00	2.33	2.00	2.00	-	2.00	2.00	2.00	-	-	2.00	3.00	2.00	-
3	C103	Engineering Chemistry	3.00	2.17	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	2.00	2.00	-
4	C104	Engineering Mechanics	2.83	2.50	2.00	2.00	2.25	-	-	-	-	-	-	-	2.00	-
5	C105	Computer Programming	2.83	2.00	2.33	2.00	3.00	-	-	-	2.00	-	-	1.50	2.33	2.33
6	C106	Environmental Studies	-	-	-	-	-	3.00	2.83	2.17	1.00	-	1.00	2.00	2.00	-
7	C107	Engineering Chemistry Laboratory	2.67	2.00	-	2.00	2.00	-	2.00	-	2.00	-	-	2.00	2.00	-
8	C108	English - Communication Skills Lab - I	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	2.00	3.00	2.00	-
9	C109	C Programming Lab	3.00	2.33	3.00	2.33	3.00	-	-	1.00	2.00	-	-	1.50	2.33	2.33
10	C110	English – II	-	-	-	-	-	2.00	2.00	2.00	2.00	3.00	2.00	3.00	2.00	-
11	C111	Mathematics - II	3.00	2.00	2.33	2.00	2.00	2.00	2.00	-	-	-	2.00	3.00	2.00	-
12	C112	Mathematics-III	3.00	2.33	2.00	2.00	-	2.00	2.00	2.00	-	-	2.00	3.00	2.00	-
13	C113	Engineering Physics	3.00	2.00	2.50	2.00	2.00	2.20	2.20	2.33	-	-	-	2.00	2.00	-
14	C114	Professional Ethics and	-	-	-	-	-	2.00	1.75	3.00	1.00	1.00	2.00	2.50	1.67	-

		Human Values														
15	C115	Engineering Drawing	2.83	2.17	2.00	2.00	-	2.00	2.00	2.00	2.00	-	2.00	3.00	2.00	-
16	C116	English - Communication Skills Lab - II	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	2.00	3.00	2.00	-
17	C117	Engineering Physics Lab	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	-	2.00	2.00	-
18	C118	Engineering Physics-Virtual Labs-Assignment	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	-	2.00	2.00	-
19	C119	Engineering Workshop & IT Workshop	2.33	1.33	1.00	-	2.33	-	-	-	1.00	-	-	1.50	2.50	1.84
20	C201	Managerial Economics and Financial Analysis	-	-	-	-	-	3.00	2.00	3.00	2.33	2.00	2.50	2.00	2.00	-
21	C202	Object Oriented Programming through C++	2.50	2.50	2.50	2.33	2.00	2.33	-	-	-	2.00	-	2.50	2.83	2.67
22	C203	Mathematical Foundations of Computer Science	3.00	2.67	-	2.83	2.00	-	-	-	-	-	3.00	2.00	2.67	-
23	C204	Digital Logic Design	2.67	2.67	2.67	-	2.50	2.67	-	-	2.33	2.50	2.67	2.67	2.50	-
24	C205	Data Structures	2.50	2.50	2.67	2.67	2.00	2.33	-	-	2.33	-	2.00	2.33	2.83	2.67
25	C206	Object Oriented Programming Lab	2.50	2.50	2.83	2.33	3.00	-	-	2.50	2.00	-	-	2.00	2.83	2.83

26	C207	Data Structures Lab	2.50	2.50	2.67	2.83	3.00	2.50	-	-	2.00	-	2.33	2.00	2.83	2.83
27	C208	Digital Logic Design Lab	2.50	3.00	2.67	2.67	3.00	2.67	-	-	2.67	2.67	2.67	2.67	2.83	-
28	C209	Seminar-I	3.00	3.00	3.00	2.50	2.50	2.83	-	2.83	3.00	2.33	2.67	2.50	3.00	2.67
29	C210	Probability and statistics	2.33	3.00	-	2.83	-	-	-	-	-	-	-	2.00	2.50	-
30	C211	Java Programming	2.33	2.50	2.50	2.00	2.33	2.00	-	2.00	2.00	-	2.00	2.00	2.83	2.67
31	C212	Advanced Data Structures	2.50	2.50	2.67	2.50	2.00	-	-	-	2.00	-	2.00	2.00	2.83	2.83
32	C213	Computer Organization	2.50	2.50	2.67	2.00	2.50	-	-	-	-	-	2.00	2.00	2.83	2.83
33	C214	Formal Languages and Automata Theory	2.67	2.50	2.67	3.00	-	-	-	-	2.33	2.50	-	2.33	2.50	2.50
34	C215	Advanced Data Structures Lab	2.67	2.67	2.83	2.83	3.00	-	-	2.83	2.33	-	2.00	2.00	2.83	2.67
35	C216	Java Programming Lab	2.50	2.67	2.83	2.67	3.00	2.50	-	-	2.33	-	2.00	2.00	2.83	2.67
36	C217	Free Open-Source Software (FOSS) Lab	2.50	2.67	2.83	2.50	3.00	2.50	-	-	2.33	2.33	2.33	2.33	2.83	2.67
37	C301	Compiler Design	2.33	2.67	2.33	3.00	-	-	-	-	2.00	-	-	2.00	2.67	2.67
38	C302	Data Communication	2.50	2.67	2.67	2.33	-	2.33	-	2.83	2.33	2.67	-	2.33	2.67	-
39	C303	Principles of Programming Languages	2.33	2.50	2.50	2.50	2.67	-	-	-	-	-	2.33	-	2.67	2.33

40	C304	Database Management Systems	2.33	2.33	2.67	3.00	2.67	2.50	-	-	2.00	2.00	2.00	2.33	2.83	2.83
41	C305	Operating Systems	2.33	2.33	2.50	2.67	2.33	-	-	2.00	2.00	2.50	-	2.33	2.83	2.83
42	C306	Compiler Design Lab	2.67	2.50	3.00	3.00	3.00	-	-	2.83	2.33	-	-	2.00	2.83	2.83
43	C307	Operating System &Linux Programming Lab	2.67	2.50	2.83	2.83	3.00	2.33	-	2.83	2.33	2.00	-	2.33	2.83	2.83
44	C308	Database Management Systems Lab	2.67	2.50	3.00	3.00	3.00	2.33	-	2.83	2.50	2.00	2.67	2.33	2.83	2.67
45	C309	Seminar-II	3.00	3.00	3.00	3.00	2.50	2.67	2.00	2.83	3.00	2.33	2.83	2.50	3.00	2.67
46	C310	Computer Networks	2.50	2.83	2.50	2.83	2.33	-	2.00	-	2.50	2.00	-	-	2.67	2.67
47	C311	Data Warehousing and Mining	3.00	2.67	2.50	3.00	2.67	-	-	-	2.00	-	-	2.33	2.83	2.67
48	C312	Design and Analysis of Algorithms	2.50	2.67	3.00	3.00	2.00	2.33	-	2.83	2.00	2.33	2.00	2.33	2.67	2.83
49	C313	Software Engineering	2.67	2.50	2.50	2.67	2.00	2.50	-	2.83	2.67	2.00	2.83	2.33	2.83	2.83
50	C314	Web Technologies	2.50	2.67	2.67	3.00	2.83	2.67	-	-	3.00	2.00	-	2.50	2.67	2.83
51	C316	IPR and Patents	-	-	-	-	-	3.00	2.33	2.83	2.33	2.00	2.50	2.00	2.00	-
52	C316	Computer Networks Lab	2.50	3.00	2.83	2.83	2.83	2.33	-	2.83	2.50	2.00	-	2.00	2.83	2.33

53	C317	Software Engineering Lab	2.33	2.67	2.83	2.67	3.00	2.33	-	2.83	2.50	2.00	2.00	2.00	2.83	2.67
54	C318	Web Technologies Lab	2.33	3.00	3.00	3.00	3.00	2.33	2.00	-	2.67	2.00	-	2.00	2.83	2.83
55	C401	Cryptography and Network Security	2.33	2.50	2.33	2.83	-	2.33	-	3.00	-	-	2.00	2.00	2.83	2.83
56	C402	UML & Design Patterns	2.33	2.83	2.67	2.50	2.00	2.00	2.00	2.83	2.50	2.33	2.50	2.33	2.83	2.33
57	C403	Mobile Computing	2.33	2.50	2.33	2.67	-	2.00	2.00	2.83	-	-	-	2.00	3.00	2.67
58	C404	Software Testing Methodologies	2.33	2.50	2.50	2.67	2.00	2.33	-	3.00	2.33	2.33	2.67	2.33	3.00	2.83
59	C405	Hadoop and Big Data	2.33	2.67	2.50	3.00	2.33	2.00	2.00	-	2.50	-	2.33	2.33	3.00	2.83
60	C406	UML & Design Patterns Lab	2.67	2.67	3.00	2.67	3.00	2.00	2.33	2.83	2.33	2.00	2.33	2.00	3.00	2.83
61	C407	Mobile Application Development Lab	2.50	2.67	2.50	2.83	3.00	-	-	2.83	2.33	-	-	-	2.83	2.83
62	C408	Software Testing Lab	2.50	2.67	2.50	2.67	3.00	2.00	2.00	2.83	2.50	2.33	2.83	2.33	2.83	2.67
63	C409	Hadoop & BigData Lab	2.50	2.67	2.67	3.00	3.00	-	2.00	2.83	2.50	-	2.33	2.00	3.00	2.33
64	C410	Human Computer Interaction	2.33	2.33	2.33	2.33	2.00	-	-	-	-	-	-	-	2.67	2.00
65	C411	Cloud Computing	2.33	2.33	2.33	2.00	2.00	2.00	2.33	-	2.33	2.00	2.00	2.50	2.83	2.33

66	C412	Distributed Systems	2.33	2.33	2.33	2.83	2.00	2.33	-	-	2.00	-	2.00	2.00	2.83	2.00
67	C413	Management Science	-	-	-	-	-	3.00	3.00	2.50	2.50	2.33	2.00	2.00	2.00	-
68	C414	Project	3.00	3.00	3.00	3.00	2.33	3.00	2.33	3.00	3.00	2.33	3.00	3.00	3.00	3.00
Average PO-PSO Mapping			**2.60**	**2.51**	**2.54**	**2.56**	**2.50**	**2.32**	**2.11**	**2.51**	**2.30**	**2.31**	**2.25**	**2.27**	**2.56**	**2.63**
Average Percentage (%)			**86.8**	**83.73**	**84.8**	**85.5**	**83.3**	**77.4**	**70.2**	**83.7**	**76.8**	**76.96**	**74.86**	**75.55**	**85.34**	**87.74**

Table B.2.1.1.h: Consolidated CO-PO-PSO Mapping for R13 Regulations

Compliance of Program Curriculum with PO & PSO for R13 Regulations:

The mapping of courses in the program to POs and PSOs showed in Table B.2.1.1.h indicates the compliance of the program curriculum in R13 regulations with POs & PSOs. From the mapping table, the following observations are made to define the compliance as:

- The Professional Core courses and electives like Software Engineering, Machine Learning, Artificial Intelligence, Hadoop and Big Data, Python Programming, Java Programming etc., satisfies PO1, PO2, PO3, PO4, PO5 to an extent of 82% - 87% on an average.
- The Basic Sciences and Humanities including management courses like English, English Communications Skills Lab, Environmental Studies, Management Science etc., satisfies PO7, PO8, PO9, PO10, PO11 to an extent of 70% - 84% on an average.
- The Engineering Sciences courses like Engineering Drawing, Engineering Mechanics etc., satisfy PO6 to an extent of 77% on an average.
- The Courses Seminar and Project satisfy PO8, PO9, PO10, PO11, and PO12 to an extent of 75% - 84% on an average.
- And all courses are mapped with PSO1 and PSO2 to an extent of 85% - 87% on an average.

The Figure: B.2.1.1.c represents the R13 curriculum compliance to POs and PSOs. In the figure blue colour histogram represents the POs and PSOs whose average percentage mapping is more than 80 % and orange colour represents below 80% for R13 Regulations.

PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Average PO-PSO Mapping	2.60	2.51	2.54	2.56	2.50	2.32	2.11	2.51	2.30	2.31	2.25	2.27	2.56	2.63
Average Percentage	86.8	83.73	84.8	85.5	83.3	77.4	70.2	83.7	76.8	76.96	74.86	75.55	85.34	87.74

Table B.2.1.1.i: Average mapping to courses in R13 curriculum to POs & PSOs

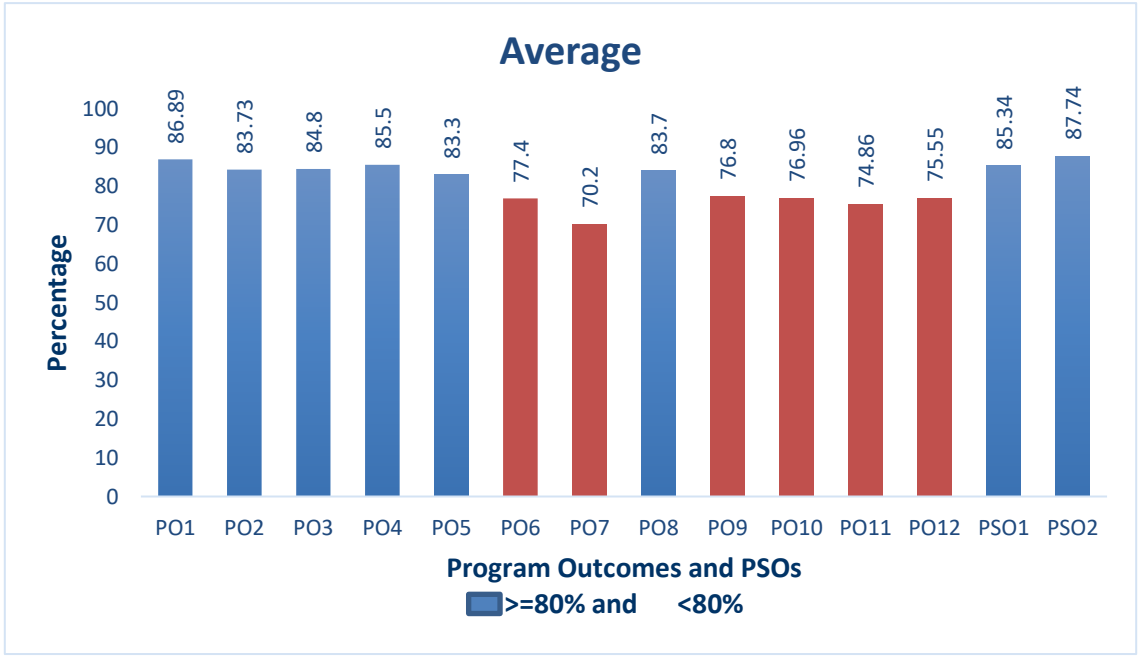


Figure: B.2.1.1.c: R13 curriculum compliance to POs and PSOs

Sl. No.	Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	C101	English – I	-	-	-	-	-	2.33	2.33	2.33	2.33	3	2.5	3	2	-
2	C102	Mathematics-I	3	3	3	3	-	3	2.5	2.5	-	-	2.5	3	2.5	-
3	C103	Mathematics-II (Mathematical Methods)	2.83	2.67	2.6	2.6	2.5	-	3	3	-	-	2.6	2.8	1.83	-
4	C104	Applied Physics	3	2.67	3	3	-	3	2.75	2.75	-	-	-	2.67	2.33	-
5	C105	Computer Programming	2.67	2.67	2.5	2.5	2.5	-	-	-	2.5	-	-	2.5	2.67	2.67
6	C106	Engineering Drawing	2.67	2.5	2.5	2.5	-	2.5	3	3	3	-	3	3	2	-
7	C107	English - Communication Skills Lab-1	-	-	-	-	-	2	2	2	3	3	2	3	2	-
8	C108	Applied / Engineering Physics Lab	3	2.5	2.33	2.33	2.33	2	2	2	2	2	-	2	2	-
9	C109	Applied / Engineering Physics – Virtual Labs– Assignments	3	2.5	2.33	2.33	2.33	2	2	2	2	2	-	2	2	-
10	C110	Computer Programming Lab	3	2.67	2.33	2.33	2.33	-	-	2.33	2.33	-	-	-	2.33	2.33
11	C111	English – II	-	-	-	-	-	2.5	2.33	2.5	2.33	2.33	2.5	3	2	-
12	C112	Mathematics-III	3	3	3	2.33	-	2.33	2.33	2.33	-	-	2.33	3	2	-
13	C113	Applied Chemistry	3	3	2.5	2.5	-	2.5	2.5	2.5	-	-	-	2.5	2	-
14	C114	Object Oriented Programming through C++	3	2.5	2.25	2.33	2.33	-	-	-	3	-	-	3	2.17	2.67
15	C115	Environmental Studies	-	-	2.5	-	-	2	2.25	2.25	2.25	-	2.33	2.33	-	-

16	C116	Engineering Mechanics	3	3	3	3	2	2.5	-	-	-	-	-	-	2	-
17	C117	Applied / Engineering Chemistry Laboratory	2.67	2.33	-	2.5	2.5	-	2	-	2	2	-	2	2	-
18	C118	English - Communication Skills Lab- 2	-	-	-	-	-	2	2	2	3	3	2	3	2	-
19	C119	Object Oriented Programming Lab	3	2.67	2.33	2.33	2.33	-	-	2.33	2.33	-	-	-	2.33	2.33
20	C201	Statistics with R Programming	2.33	2.5	2.83	2	2.5	2	-	3	-	-	2.54	2.33	2.33	-
21	C202	Mathematical Foundations of Computer Science	2.33	3	-	2.5	-	-	-	-	-	-	-	2	2.67	3
22	C203	Digital Logic Design	2.67	2.67	2.67	-	-	2.67	-	-	2.33	2.33	2.67	2	2.83	3
23	C204	Python Programming	2.83	2.67	2.83	2	2.67	-	-	-	-	-	-	2	2.67	2
24	C205	Data Structures through C++	2.33	2.33	2.33	2.67	2	2	-	-	2.5	-	-	2	2.33	1.5
25	C206	Computer Graphics	3	2.5	2.5	2.5	2	-	-	2.5	2	-	2	2	2.83	3
26	C207	Data Structures through C++Lab	2.33	2.33	2.5	2.67	2	2	-	-	2	-	1.67	2	2.83	3
27	C208	Python Progra-mming Lab	3	3	2.5	2.5	2.5	-	-	-	-	-	-	2	2.67	2
28	C209	Software Engineering	2.33	2.33	2.33	2	2	-	-	2.83	2	2.5	2	2	3	3
29	C210	Java Programming	2.33	2.33	2.83	2	2.33	2	-	-	2	-	2	2	2.33	2

30	C211	Advanced Data Structures	3	3	2.67	2.67	3	2	-	-	2	-	2.5	2	2.83	3
31	C212	Computer Organization	3	2.5	2.67	2	-	-	-	-	2	-	2	2	2.67	3
32	C213	Formal Languages and Automata Theory	2.5	3	2.5	2.67	2.5	-	-	-	-	-	-	2	2.33	3
33	C214	Principles of Programming Languages	2.67	2.83	-	2	2.33	-	-	-	-	-	-	-	2.5	3
34	C215	Advanced Data Structures Lab	3	3	2.67	2.67	3	2	-	2.83	2	-	2	2	2.5	3
35	C216	Java Programming Lab	3	3	2.83	2.67	2.5	2	2	-	2	-	-	2	2.83	3
36	C301	Compiler Design	2.67	2.67	2.5	3	-	-	-	-	2	-	2	2	2.83	3
37	C302	Unix Programming	2.5	2.83	2.83	2	2.5	-	-	-	2.5	2	2.5	2	2.67	2
38	C303	Object Oriented Analysis and Design using UML	2.5	2.67	2.33	2	2	2	2	2.83	2.5	2.5	2.67	-	2.33	-
39	C304	Database Management Systems	3	3	3	3	2.5	2	2	-	2.5	-	2	2.33	2.5	3
40	C305	Operating Systems	3	2.5	2.83	2.67	-	2	-	-	-	2	-	-	2.67	3
41	C306	Unified Modeling Lab	3	3	3	2	2.5	2	2	-	2.5	2	2.5	-	2.67	3
42	C307	Operating System & Linux Programming Lab	3	3	2.5	2.83	3	2	-	2.83	2.5	2	-	2	2.67	3

43	C308	Database Management System Lab	3	3	2.5	3	2.5	2	-	2.83	2.5	-	2	2.33	2.83	3
44	C309	Professional Ethics & Human Values	-	-	-	-	-	2.67	2.33	2.83	2	2	-	2	2.67	3
45	C310	Computer Networks	2.33	2.5	2.5	2.83	2.33	2	2	2.83	-	2	2.75	-	3	3
46	C311	Data Warehousing and Mining	2.33	3	2.83	3	2.33	-	-	2.83	-	-	2.5	2.5	3	3
47	C312	Design and Analysis of Algorithms	2.5	2.83	2.5	3	-	2	-	-	-	2	2.67	2.33	3	3
48	C313	Software Testing Methodologies	2.33	2.5	2.67	2.67	-	2	-	-	2	2.67	2.67	2.5	2.67	2.33
49	C314	Artificial Intelligence	2.5	2.67	2.83	2.83	3	-	-	2	-	-	-	2	3	2.5
50	C315	Network Programming Lab	3	2.83	2.67	2.83	3	-	-	-	2	2.33	-	-	3	3
51	C316	Software Testing Lab	3	2.5	3	2.67	2.5	2.33	-	2.83	2.5	2.67	2.5	2.5	2	-
52	C317	Data Warehousing and Mining Lab	2.83	2.83	2.67	2.83	2.5	-	-	2.83	2.5	-	-	3	3	3
53	C318	IPR & Patents	-	-	-	-	-	3	2.5	2.83	-	-	-	-	3	3
54	C401	Cryptography and Network Security	2.33	2.83	2.5	2.83	-	2.5	-	-	-	-	2.75	2.5	3	3
55	C402	Software Architecture & Design Patterns	2.33	2.5	3	2.83	-	2	-	3	3	-	-	2.5	3	3
56	C403	Web	3	2.5	3	3	2.83	3	-	2.83	2.67	-	-	2.2	2.67	3

		Technologies													
57	C404	Managerial Economics and Financial Analysis	-	-	-	-	-	3	2	2.83	2.33	2	2.5	2	3	2
58	C405	Big Data Analytics	3	2.5	2.83	3	2.3	2.83	2.33	3	2.67	2	2.54	2.1	3	2.5
59	C406	Cloud Computing	2.83	2.5	2.5	2.5	2.5	2.5	2.33	-	-	2	2.5	2.5	3	3
60	C407	Software Architecture& Design Patterns Lab	2.67	3	3	2.75	3	-	-	2.83	2	-	-	2.5	3	3
61	C408	Web Technologies Lab	2.67	3	3	2.83	3	2.5	2.5	2.83	2.5	2.33	-	2.5	3	2
62	C409	Distributed Systems	2.67	2.33	2.33	2.67	2.25	2.5	-	-	2.5	2	-	2.5	3	3
63	C410	Management Science	-	-	-	-	-	3	3	2.83	2.5	2	2	2	3	3
64	C411	Machine Learning	2.67	2.83	2.67	3	2.33	-	-	-	-	-	-	2.43	3	2.33
65	C412	Concurrent and Parallel Programming	3	2.67	2.67	3	2.5	-	-	-	-	-	-	-	3	2
66	C413	Seminar	3	3	3	3	2.5	3	2.5	3	3	3	2.2	3	3	3
67	C414	Project	3	3	3	3	3	3	2.5	3	3	3	2.5	3	3	3
Average PO-PSO Mapping			**2.73**	**2.62**	**2.66**	**2.62**	**2.49**	**2.31**	**2.24**	**2.55**	**2.36**	**2.37**	**2.27**	**2.37**	**2.6**	**2.74**
Average Percentage (%)			**92.04**	**90.6**	**88.9**	**86.95**	**82.85**	**78.16**	**77.37**	**88.26**	**79.32**	**76.98**	**78.61**	**78.78**	**86.61**	**91.27**

Table B.2.1.1.j: Consolidated CO-PO-PSO Mapping for R16 Regulations

Compliance of Program Curriculum with PO & PSO for R16 Regulations:

The mapping of courses in the program to POs and PSOs shown in the Table B.2.1.1.j indicates the compliance of program curriculum in R16 regulation with POs & PSOs. From the mapping table, the following observations are made to define the compliance as:

- The Professional Core courses and electives like Software Engineering, Machine Learning, Artificial Intelligence, Hadoop and Big Data, Python Programming, Java Programming etc., satisfy PO1, PO2, PO3, PO4 and PO5 to an extent of 82% - 90% on an average.
- The Basic Sciences and Humanities including management courses like English, English Communications Skills Lab, Environmental Studies, Management Science etc., satisfies PO7, PO8, PO9, PO10, PO11 to an extent of 70% - 84% on an average.
- The Engineering Sciences courses like Engineering Drawing, Engineering Mechanics etc., satisfy PO6 to an extent of 77% on an average.
- The Courses Seminar and Project satisfy PO8, PO9, PO10, PO11, and PO12 to an extent of 77% - 85% on an average.
- And all courses are mapped with PSO1 and PSO2 to an extent of 86% - 91% on an average.

PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Average PO-PSO Mapping	2.73	2.62	2.66	2.62	2.49	2.31	2.24	2.55	2.36	2.37	2.27	2.37	2.6	2.74
Average Percentage	92.04	90.6	88.99	86.95	82.85	78.16	77.37	88.26	79.32	76.98	78.61	78.78	86.61	91.27

Table B.2.1.1.k: Average mapping to courses in R16 curriculum to POs & PSOs

The FigureB.2.1.1.d represents the R16 curriculum compliance to POs and PSOs. In the figure blue color histogram represents the POs and PSOs whose average percentage mapping is more than 80 % and orange color represents below 80% for R16 Regulations.

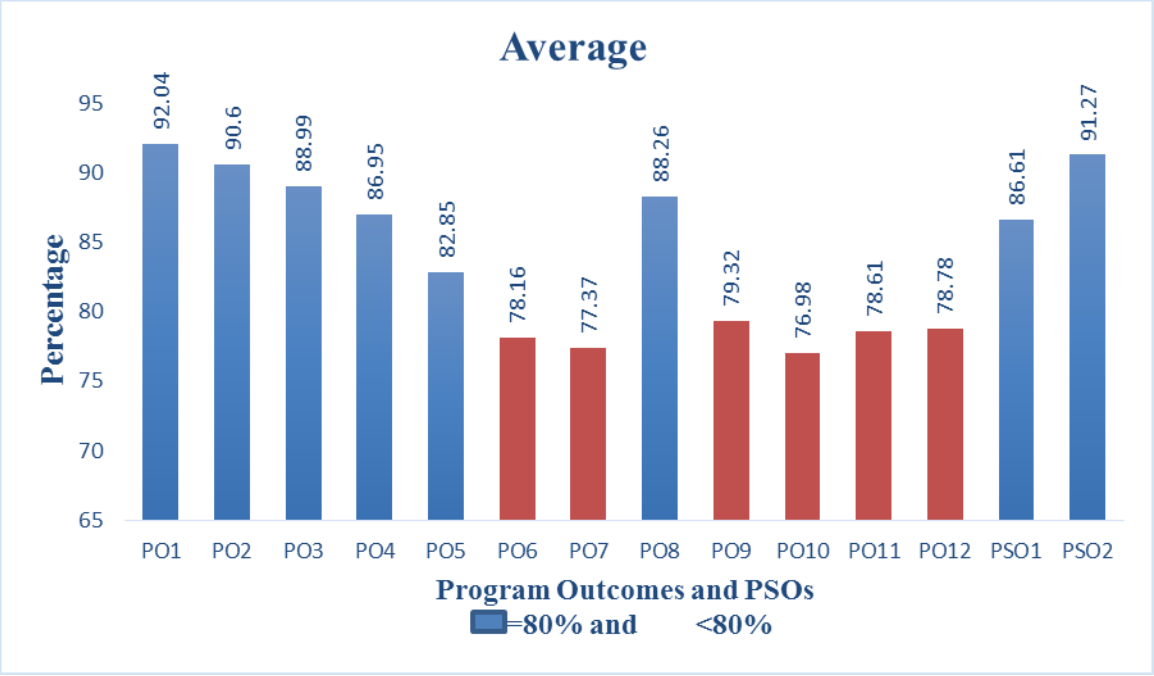


Figure B.2.1.1.d: R16 Curriculum compliance to POs & PSOs

The CO-PO-PSO mapping of R13 and R16 are compared and shown below in Table B.2.2.1.l:

Percentage of CO-PO-PSO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
R13	86.80	83.72	84.82	85.47	83.27	**77.43**	**70.23**	83.70	**76.83**	**76.96**	**74.86**	**75.55**	85.34	87.74
R16	92.04	90.60	88.99	86.95	82.85	**78.16**	**77.37**	88.26	**79.32**	**76.98**	**78.61**	**78.78**	86.61	91.27

Table B.2.1.1.l: Comparison of CO-PO Mapping for R13 and R16 Regulations

In Figure B.2.1.1.e. blue and Maroon color histogram represents the POs and PSOs whose average percentage mapping is more than 80 % for R13 and R16 Regulations respectively and red and yellow color histogram represents the POs and PSOs whose average percentage mapping is less than 80 % for R13 and R16 Regulations respectively.

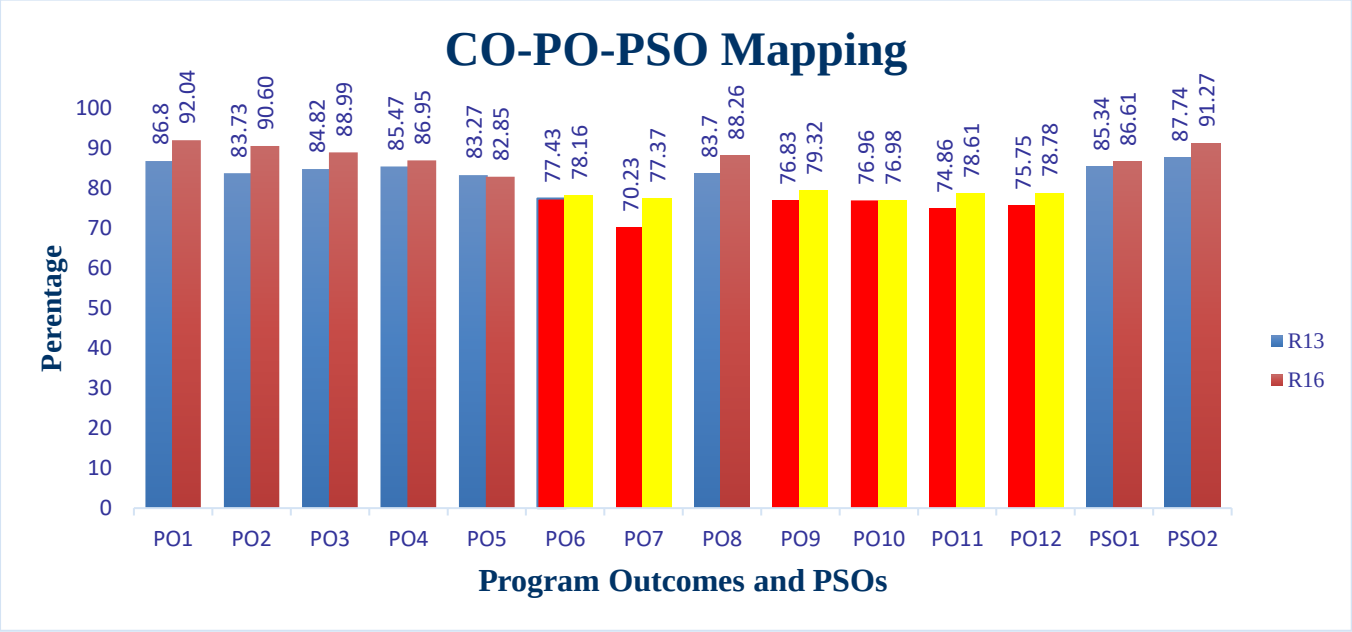


Figure B.2.1.1.e: Comparison of CO-PO-PSO Mapping for R13 and R16 Regulations

On comparing the CO-PO and CO-PSO mapping for R13 and R16 regulations from TableB.2.2.1.l, it is very clear that there is an improvement of POs and PSOs mapping from R13 to R16 regulation.

B. List the curricular gaps for the attainment of defined POs and PSOs (4)

The mapping between Course Outcomes and Program Outcomes are observed from TableB.2.1.1.h and TableB.2.1.1.j. It is observed that the curriculum provided by the university is in compliance with most of the POs. Few courses map with Program Outcomes such as Engineering Knowledge (PO1), Problem Analysis (PO2), Design/ Development of Solutions (PO3), Conduct Investigations of Complex Problems (PO4), Modern Tool Usage (PO5) and Ethics(PO8) map highly whereas remaining Program Outcomes such as the Engineer & Society (PO6), Individual and Team Work (PO9), Communications (PO10), Project Finance and Management (PO11) and Lifelong Learning(PO12) map moderately and Program Outcome Environment and Sustainability (PO7) maps with less correlation compared to other POs.

In the process of enhancing the compliance of the curriculum with the program outcomes, there are a few curriculum gaps identified. The above gaps are addressed by the addition of add-on courses and training programs. However, all those gaps are taken care of by adding skill-based components and introducing add-on Lab experiments and a few contents in theory courses along with the curriculum provided by the university.

The average percentage of program curriculum to POs and PSOs is computed as shown in TableB.2.1.1.i. for R13 regulations and TableB.2.1.1.k for R16 regulations. The corresponding plot is shown in Figure B.2.1.1.c and Figure B.2.1.1.d. The curriculum incorporates an academically challenging environment that helps students develop problem solving skills to design and develop solutions to complex engineering problems. However, the gaps in the curriculum are identified by considering the POs that are mapped with less than 80% and referring to stakeholder feedback from TableB.2.1.1.m.is indicated in Table B.2.1.1.n.

Sl. No	Identified PO	Gap Identification	Relevance to PSOs
1	PO6	**G1** - Motivation towards societal responsibility	PSO1
2	PO6	**G2** -Motivation towards legal and safety issues	PSO1
3	PO7	**G3** - Motivation on environment sustainability	PSO1
4	PO9	**G4** -Lack of participation in inter and intra college fests	PSO1
5	PO10	**G5** -Inadequate communication skills to acquire employability	PSO1
6	PO11, PO12	**G6** -Inadequate exposure to real-time projects to acquire lifelong learning skills	PSO1, PSO2

Table B.2.1.1.m: Gaps Identified through Curriculum compliance to PO & PSO for R13 and R16 Regulations

Sl. No.	Stakeholder	Gap	Relevance to POs and PSOs
1	Outgoing Students	**G7** - Lack of coding skills on software's currently used in the industry	PO4 PSO1, PSO2
2	Alumni	**G8** - Exposure to new technologies used in the industry	PO4 PSO1, PSO2
		G4 - Students should be credited to co-curricular activities, like motivating students that will encourage students to divert part of their time in research and development.	PO1, PO11 PSO1, PSO2
3	Parent	**G5** -Inadequate communication skills to acquire employability	PO10, PO12 PSO1
4	Employer	**G9** - Inadequate aptitude and technical skills to solve complex engineering problems	PO4 PSO1

Table B.2.1.1.n: Gaps Identified through Stakeholder feedback

2.1.2. State the Delivery Details of the Content Beyond the Syllabus for Attainment of POs and PSOs (10)

2020-21

Sl. No.	Gap	Action Taken	Date. Month. Year	Resource Person with Designation	% of Students	Relevance to POs, PSOs
1	**G7** -Inadequate technical skills	Campus Placement Training	20.09.2021 to 21.09.2021	CCC Team	12%	PO9, PO10, PO12 PSO1
2	**G9** -Inadequate aptitude, Verbal skills	Campus Placement Training	19.09.2021	(Alumni) Shazia, Poojitha	11%	PO1, PO2, PO9, PO10, PO12 PSO1
3	**G7** -Inadequate technical skills	Campus Placement Training	17.09.2021 to 19.09.2021	TALENTIO	79%	PO9, PO10, PO12 PSO1
4	**G9** -Inadequate technical skills	Campus Placement Training	15.09.2021	TALENTIO	79%	PO9, PO10, PO12, PSO1
5	**G9** -Inadequate technical skills	Campus Placement Training	02.09.2021 to 06.09.2021	CCC Team	12%	PO9, PO10, PO12, PSO1
6	**G9** -Inadequate technical skills	Campus Placement Training	26.08.2021 to 15.09.2021	SIXPHRASE	79%	PO9, PO10, PO12, PSO1
7	**G9** -Inadequate aptitude, Verbal skills	Campus Placement Training	25.07.2021	(Alumni)A. Rekha, B. Harshitha	76%	PO1, PO2, PO9, PO10, PO12, PSO1
8	**G9** -Inadequate technical skills	Campus Placement Training	21.07.2021	CSE-Alumni	79%	PO9, PO10, PO12, PSO1
9	**G4-**Motivation towards testing of different modules of an application as a team in real time.	Seminar on Latest Testing methods	20.07.2021	T. Suresh Kumar WIPRO	48%	PO5, PO9, PSO1, PSO2

10	**G9** -Inadequate technical skills	Campus Placement Training	17.07.2021	Naveen, Rayule, Shankar	76%	PO9, PO10, PO12, PSO1
11	**G4** - Motivation to communicate effectively on complex engineering activities	Seminar on Deep Learning for Predictions in Emerging Currency Markets	16.07.2021	C.D. Malleswar, Former Director-NSTL	70%	PO9, PO10, PO11, PO12, PSO2
12	**G7** -Inadequate technical skills	Campus Placement Training	28.06.2021 to 05.07.2021	Naveen, Rayule, Shankar	76%	PO9, PO10, PO12, PSO1
13	**G9** -Inadequate aptitude, Verbal skills	Campus Placement Training	23.06.2021 to 02.07.2021	Barclay's Team	79%	PO1, PO2, PO9, PO10, PO12, PSO1
14	**G9** -Inadequate aptitude, Verbal skills	Campus Placement Training	23.06.2021 to 23.06.2021	Dr.I.S.V.Manjula	76%	PO1, PO2, PO9, PO10, PO12, PSO1
15	**G1** - Motivation of applying engineering solutions on societal and environmental contexts.	Seminar on Data and Business Intelligence	22.06.2021	Dr. Bujanga Rao, NIAS	85%	PO6, PO7, PSO1, PSO2
16	**G7**-Inadequate technical skills	Campus Placement Training	14.06.2021 to 19.06.2021	CCC Team	17%	PO9, PO10, PO12, PSO1
17	**G9** -Inadequate technical skills	Campus Placement Training	24.05.2021 to 29.05.2021	CCC Team	17%	PO9, PO10, PO12, PSO1
18	**G7** -Inadequate technical skills	Campus Placement Training	24.05.2021 to 26.06.2021	TALENTIO	79%	PO9, PO10, PO12, PSO1
19	**G8** -Exposure to new technologies	Guest Lecture on Cloud Virtualization	17.05.2021	Dr.V. Viziasaradhi, Former Director of HPCL, Mumbai	80%	PO3, PO4, PO5, PSO1
20	**G8** -Exposure to new technologies	Guest Lecture on Influence of AI in 5G Network	12.04.2021	Dr. Archana Sharma, Head, PP and EMD, BARC	70%	PO3, PO5, PSO1

21	**G9** -Inadequate technical skills	Campus Placement Training	10.04.2021 to 15.04.2021	CCC Team	79%	PO9, PO10, PO12, PSO1
22	**G8** -Exposure to new technologies	Guest Lecture on The Internet of Industrial Things & Information Systems	07.04.2021	Dr. Rishi Verma, Scientist-G, BARC, Visakhapatnam	83%	PO3, PO4, PO5, PSO1, PSO2
23	**G9** -Inadequate aptitude, Verbal skills	Campus Placement Training	06.04.2021 to 22.05.2021	APEX Team	79%	PO1, PO2, PO9, PO10, PO12, PSO1
24	**G7** -Inadequate technical skills	Campus Placement Training	28.03.2021 to 31.03.2021	CCC Team	79%	PO1, PO2, PO9, PO10, PO12, PSO1
25	**G8** – Exposure to new Technologies	Workshop on Android Application Development (2018 Batch)	15.03.2021 to 20.03.2021	Mr.M.V.Gopi, Mr.G.Srikanth, APSSDC-Trainers	86%	PO1, PO2, PO3, PO5 PSO1, PSO2
26	**G7** - Lack of coding skills on software's currently used in the industry	Workshop on Machine Learning Using Python (2017 Batch)	22.02.2021 to 27.02.2021	Mr.T.Ravi Kishore, APSSDC-Trainer	93%	PO1, PO2, PO3, PO5, PSO1, PSO2
27	**G8** - Exposure to new technologies.	Workshop on Internet of Things (2019 Batch)	22.02.2021 to 27.02.2021	Mr.G.Sreenivas, APSSDC-Trainer	94%	PO1, PO2, PO3, PO4 PO5, PSO1, PSO2
28	**G8** -Exposure to new technologies	Guest Lecture on IoT and its application	18.02.2020	T.Suresh Kumar, Lead Consultant, Wipro Limited,	79%	PO3, PO5, PSO1, PSO2
29	**G8** – Exposure to new Technologies	Workshop on Source code Management using GIT and GITHUB	08.02.2021 to 09.02.2021	Mr. M.V.Gopi, APSSDC-Trainer	88%	PO1, PO5, PSO1
30	**G9** -Inadequate technical skills	Campus Placement Training	03.02.2021 to 10.02.2021	Naveen, Sagar	79%	PO9, PO10, PO12, PSO1

31	**G3** -Exposure to new technologies in multidiscipline	Seminar on Introduction of Embedded Web Technology	11.01.2021	B. Suresh Babu, NIT - Warangal	41%	PO7, PO11, PO10, PSO1, PSO2
32	**G5** –Exposure to knowledge to manage projects	Seminar on Data Security and related issues	28.12.2020	Dr. Archana Sharma, BARC	31%	PO5, PSO1, PSO2
33	**G8** -Exposure to new technologies	Guest Lecture on Challenges in Cyber Security	23.12.2020	Dr V.Bhujanga Rao, ISRO Chair Professor	83%	PO3, PO4, PO5, PSO1
34	**G4-** Motivation of Programming skills to communicate effectively on complex engineering activities.	Seminar on Python Libraries for Data science	15.12.2020	T.Mastan Rao, CMR College	50%	PO10, PSO1, PSO2
35	**G8** – Exposure to new Technologies	Workshop on Game Development Using Build Box	14.12.2020 to 19.12.2020	Mr.T.Ravi Kishore, Mr.P.Alluru Raju, APSSDC-Trainers	94%	PO1, PO2, PO3, PO5, PSO1, PSO2
36	**G8** –Exposure to apply ethical principal in engineering practice	Seminar on Cyber security trends, issues, and challenges	11.12.2020	Dr. B.Subba Rao, Director - SAMEER	96%	PO8, PSO1, PSO2
37	**G8** -Exposure to new technologies	Guest Lecture on AI enabled Software Defined Networking	17.11.2020	Sri.Venkata Rayulu B, Delivery Project Executive, IBM	76%	PO3, PO5, PSO1
38	**G6** -Inadequate exposure to real-time projects	Guest Lecture on Opportunities in Digital Era	09.11.2020	Mr. Srikanth N, Head Project Manager, Excel Global Solutions.	77%	PO3, PO4, PSO1, PSO2

Table B.2.1.2.a: Delivery details of the Content beyond the Syllabus CAY (2020-21)

2019-20

Sl. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of Students	Relevance to POs, PSOs
1	**G8** - Exposure to new technologies	Seminar on Deep Learning And AI	16.03.2020	Dr. Ch. Jaya Suma, Professor, Dept. of IT, UCEV- JNTUK,	63%	PO3, PO5 PSO1, PSO2
2	**G8** -Exposure to new technologies	Guest Lecture on Data Science & Analysis	16.03.2020	Mr. Srikanth Nandigam Head Project Manager Excel Global Solutions InfoTech	68%	PO1, PO2, PO3, PO4, PO5, PSO1
3	**G8** -Exposure to new technologies	Guest Lecture on Art of Ethical Hacking	13.03.2020	Sri.Venkata Rayulu Bonam, Delivery Project Executive IBM India (P) Ltd	74%	PO1, PO2, PO3, PO4, PO5, PSO1
4	**G8**-Exposure to new Technologies	Workshop on Google Android Developer Phase-I Batch-2	12.03.2020 to 14.03.2020	Mr.M.V.Gopi, Mr. Siva Rama Prasad, Mr. Lokesh, Trainers - APSSDC	49%	PO1, PO2, PO3, PO5, PO9 PSO1, PSO2
5	**G8** -Exposure to new technologies	Guest Lecture on Mobile App Development using Android	10.03.2020	Dr. V. ViziaSaradhi, Former Director,HPCL,	87%	PO1, PO2, PO3, PO4 PSO1, PSO2
6	**G8**-Exposure to new Technologies	Workshop on Machine Learning, Computer Vision	09.03.2020 to 11.03.2020	Dr. Prajna, Professor, Andhra University	31%	PO1, PO2, PO3, PO5 PSO1, PSO2
7	**G8** -Exposure to new technologies	Guest Lecture on Artificial Intelligence in Robotics	06.03.2020	Dr V.Bhujanga Rao, ISRO Chair Professor	85%	PO1, PO2, PO3, PO5, PSO1, PSO2
8	**G7**-Lack of Coding skills; **G8**-Exposure to new Technologies	Workshop on Machine Learning using Python	06.03.2020 to 07.03.2020	Mr.Rushikesh, Trainer, Aakar IIT Bombay	38%	PO1, PO2, PO3, PO5 PSO1, PSO2
9	**G8**-Exposure to new Technologies	Workshop on Progressive Web Apps	06.03.2020 to 07.03.2020	Mr. Sairam, Mr. Swamy, Mr. Surya, Trainers - APSSDC	64%	PO1, PO2, PO3, PO5, PO9 PSO1, PSO2

10	**G8**-Exposure to new Technologies	Workshop on Google Android Developer Phase-I Batch-1	05.03.2020 to 07.03.2020	Mr.M.V.Gopi, Mr. Siva Rama Prasad, Mr. Lokesh, Trainers - APSSDC	48%	PO1, PO2, PO3, PO5, PO9 PSO1, PSO2
11	**G8** -Exposure to new technologies	Guest Lecture on Cryptography	26.02.2020	Dr. C.D. Malleswar, Former Director-NSTL	87%	PO1, PO2, PO3, PO4 PSO1
12	**G8** -Exposure to new technologies	Guest Lecture on Spatial Databases	11.01.2020	Dr.Rishi Verma Industrialist, PP & EMD, PEB-1, BARC.	95%	PO1, PO2, PO3, PO4 PSO1
13	**G5** –Inadequate communication skills	Guest Lecture on Bridging the Gap between the Students and Academia	26.12.2019	Mr. T. Suresh, Team Leader, WIPRO	87%	PO6, PO7, P08, PO9, PO10 PSO1
14	**G8** -Exposure to new applications	Guest Lecture on Block Chain Technology and its Applications	26.12.2019	T. Siva Rama Krishna, Associate Professor, JNTUK	93%	PO1, P02, P03, PO5, PSO1
15	**G8**-Exposure to new Technologies	Workshop on Android Based Robotics	24.12.2019 to 26.12.2019	Mr. Deepak Mourya, Mr. Jayesh Sharma	95%	PO1, PO2, PO3, PO4, PO5, PO9 PSO1, PSO2
16	**G9** -Inadequate technical skills	Campus Placement Training	15.11.2019 to 20.11.2019	Mr.Jatindhar, Mr.Shasidhar, Mr. Vishnu, Trainers, Talentio	70%	PO9, PO10, PO12, PSO1
17	**G7**-Lack of Coding skills; **G8**-Exposure to new Technologies	Workshop on Intensive Workshop on Data Science	09.12.2019 to 11.12.2019	Mrs. Priya Darshini Chettiar, Software developer, Women TechMakers	63%	PO1, PO2, PO3, PO4, PO5, PO12, PSO1, PSO2
18	**G8** - Exposure to new technologies	Seminar on Recent Trends in Emerging Technologies	01.10.2019	Dr. Ch. Jaya Suma, Professoror, JNTUK	69%	PO4 PSO1, PSO2
19	**G9** -Inadequate aptitude skills	Campus Placement Training	28.09.2019 to 03.10.2019	Mr.Jatindhar, Mr.Shasidhar, Mr.Vishnu	70%	PO1, PO2, PO4 PSO1

20	**G5** –Inadequate communication skills	Campus Placement Training	17.09.2019 to 25.09.2019	Mr.G. Sairam, Mr.Prasanna Kumar, Mr.V.Tejasree, Ms.Ramya, Ms.NeelamVaishnavi	70%	PO10 PSO1
21	G8: Exposure to new Technologies	Workshop on Cyber Security and Ethical Hacking	09.09.2019 to 10.09.2019	Mr.Manish Yadhav, Supraja Technologies	53%	PO1, PO2, PO3, PO6 PSO1, PSO2
22	**G9** -Inadequate technical skills	Campus Placement Training	06.09.2019 to 12.09.2019	Mr. Krishna Prasad, Director, KP Technologies	69%	PO9, PO10, PO12 PSO1
23	**G9** -Inadequate technical skills	Campus Placement Training	04.09.2019 to 15.09.2019	Mr. I. Raju, Assistant Professor, VIEW	69%	PO9, PO10, PO12 PSO1
24	**G8** -Exposure to new technologies	Guest Lecture on Meet up on Deep learning and AI	28.08.2019.	Dr.Patnala S.R.Chandra Murty, Acharya Nagarjuna University	34%	PO1, PO2, PO3, PO4, PO5 PSO1
25	**G2** -Motivation towards legal and safety issues	Seminar on Cyber security	22.08.2019	Mr.S.Chandra Mouli, Lead Analyst Senior Manager , Bank of America	53%	PO3, PO5 PSO1, PSO2
26	**G8** -Exposure to new technologies	Guest Lecture on OpenCV 4.0	20.08.2019	Dr.Dhrubasish Sarkar, AMITY UNIVERSITY	63%	PO1, PO2, PO3, PO4, PO5 PSO2
27	**G8**-Exposure to new Technologies	Workshop on Web Development using Python	19.08.2019 to 26.08.2019	Mr. Prasanna Raju Mr. M.V.Gopi, Trainers - APSSDC	51%	PO1, PO2, PO3, PO5, PO9, PO10, PO12 PSO1, PSO2
28	**G5**- Inadequate communication skills; **G6**-Inadequate exposure to real-time projects; **G7**- Lack of Coding skills; **G8**-Exposure to new Technologies;	Workshop on MSTP (Multi Skill Training Program)	19.08.2019 to 15.02.2020	Mr. P.Alluru Raju, Trainer APSSDC	37%	PO1, PO2, PO5, PO6, PO10, PO12 PSO1, PSO2

29	**G9** -Inadequate technical skills	Campus Placement Training	28.07.2019 to 02.08.2019	Mr.Naveen, Mr.Rayule, Mr.Shankar	70%	PO9, PO10, PO12 PSO1
30	**G9** -Inadequate aptitude skills	Campus Placement Training	27.07.2019 to 02.08.2019	Mr.Jagannath Rao, Mr.ManishWope , Ms.Radhika, Ms.Rathi, Ms.Janhvi Singh, Trainers	71%	PO9, PO10, PO12 PSO1
31	**G3** -Motivation on environment sustainability	Guest Lecture on Environmental Sustainability	18.07.2019	Dr.D. Raja Kishore, Professor, Andhra University	80%	PO6, PO7, PO8, PO9, PO10
32	**G3** -Motivation on environment sustainability	Environmental Seminar	18.07.2019	Mr. K. Sumanth , Assistant Professor, Andhra University	41%	PO3, PO5, PO10 PSO1, PSO2
33	**G8** -Exposure to new technologies	Guest Lecture on Big Data	01.07.2019	Dr. R. B. V. Subrahmanyam, Assoc.Professor, NIT Warangal	33%	PO1, PO2, PO3, PO4 PSO2
34	**G9** -Inadequate technical skills	Campus Placement Training	04.07.2019, 06.07.2019, 08.07.2019	Mr. Krishna Prasad, Director, KP Technologies	100%	PO9, PO10, PO12 PSO1
35	**G8** - Exposure to new technologies	Seminar on Industry 4.0	29.06.2019	Mr.Anup Adhwa ,CEO,IITD - AIA Foundation, SAMRATH UDYOG	31%	PO3, PO5 PSO1, PSO2
36	**G5** –Inadequate communication skills	Seminar on Oxford Achiever Orientation	26.06.2019	Mrs. Y. Sandhya, Trainer, British Council of India	97%	PO10, PSO1
37	**G8**-Exposure to new Technologies	Workshop on Data Science & Machine Learning using Python	29.05.2020 to 30.05.2020	Dr. P. Vijaya Bharati, Mr. R. Ravi	69%	PO1, PO2, PO3, PO5 PSO1, PSO2

Table B.2.1.2.b: Delivery details of the Content beyond the Syllabus CAYm1 (2019-20)

2018-19

Sl. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of Students	Relevance to POs, PSOs
1.	**G7** –Inadequate technical skills	Guest Lecture on Career Opportunities for IT and ITEs Sector	30.04.2019	Dr. B.Subba Rao Programme Director SAMEER	43%	PO1, PO2, PO3, PO4 PSO1
2.	**G8** –Exposure to new technologies	Guest Lecture on Augmented Reality and Virtual Reality	29.04.2019	Mrs.P.Aruna Kumari Asst Professor, Dept. of CSE, UCE, JNTUK.	87%	PO1, PO 2, PO3, PO4 PSO1
3.	**G9** –Inadequate technical skills	Guest Lecture on Industry Employability skills Training	26.04.2019	Mr. T. Suresh, Team Leader, WIPRO	87%	PO6, PO8, PO9, PO10 PSO2
4.	**G2** –Motivation towards legal and safety issues	Guest Lecture on Awareness program on Cyber Crime	08.03.2019	K. Prabhakar Babu, ACP, Zone2, Vishakhapatnam	67%	PO6, PO7, PO8, PO9, PO11, PO12 PSO1, PSO2
5.	**G7** –Lack of coding skills	Guest Lecture on Concurrent Programming	20.02.2019	Prof. K. Nageswara Rao Director, Andhra University	52%	PO3, PO5 PSO1, PSO2
6.	**G6-** Inadequate exposure to real-time projects; **G7:** Lack of Coding skills; G8: Exposure to new Technologies	Workshop on Udacity Nano Degree Program for Android Developer	18.01.2019 to 22.01.2019	Mr.M.V.Gopi, Trainer, APSSDC	65%	PO1, PO2, PO3, PO4, PO5, PO9 PSO1, PSO2
7.	**G8** –Exposure to new technologies	Guest Lecture on Importance of IoT in Marine Engineering	11.01.2019	Mr.S.K. Dubey, Joint Director, STPI	95%	PO2, PO3, PO4, PO5 PSO1, PSO2
8.	**G2** –Motivation towards legal and safety issues	Seminar on Cyber Security	10.01.2019	Mr.S.Chandra Mouli, Senior Manager Bank of America	38%	PO3, PO5, PO10 PSO1, PSO2
9.	**G8** – Exposure to new technologies	Seminar on Machine Learning with R	10.01.2019	Dr.A.Krishna Mohan, Professor, JNTUK	37%	PO3, PO5, PO10 PSO1, PSO2

10.	**G1** –Motivation towards societal responsibility	Seminar on Women Empowerment	10.01.2019	Mrs. Lakshmi Potluti, CEO, DCF Ventures	32%	PO3, PO5, PO10 PSO1, PSO2
11.	**G8:** Exposure to new Technologies	Workshop on Game Development using Build Box	07.01.2019 to 10.01.2019	Mr. T. Sundharan, Ms. P. Sowndarya, Game developer, Brain-O-Vision	25%	PO1, PO2, PO3, PO5, PO9 PSO1, PSO2
12.	**G9** –Inadequate technical skills	Campus Placement Training	26.12.2018 to 05.01.2019	Mr. Naveen, Mr. Rayule, Mr. Shankar, Trainers, CCC	74%	PO4, PSO1
13.	**G8**-Exposure to new Technologies	Workshop on Gamification with AR & VR	26.12.2018 to 09.01.2019	Mr.T. Ravi Kishore, P. Alluru Raju, Game developer, Build box	66%	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
14.	**G3** –Motivation on environment sustainability	Seminar on Environment sustainability	22.12.2018	Mr. K. Sumanth, Assistant Professor, AU	73%	PO6 PSO1
15.	**G8**-Exposure to new Technologies	Workshop on AI and Soft Computing	06.12.2018 to 08.12.2018	Mr. T. Suresh Kumar, Wipro Dr. B. Subba Rao, MEIT	27%	PO1, PO2, PO3, PO5 PSO1, PSO2
16.	**G9** –Inadequate technical skills	Campus Placement Training	04.12.2018 to 06.12.2018	CCC Team	71%	PO6 PSO1
17.	**G9** –Inadequate technical skills	Campus Placement Training	11.11.2018 to 17.11.2018	Machine Ignite Team	73%	PO4 PSO1
18.	**G1** –Motivation towards societal responsibility	Guest Lecture on Developing Engineering Applications	03.11.2018	Mr. S. Chandra Mouli, Senior Manager, Bank of America	75%	PO1, PO2, PO3, PO5 PSO1
19.	**G5** –Inadequate communication skills	Campus Placement Training	25.09.2018 to 29.09.2018	Machine Ignite Team	71%	PO4 PSO1

20.	**G8**-Exposure to new Technologies	Workshop on Google Android Developer Phase-II	21.09.2018 to 24.09.2018	Ms. Hema, Mr.G. Srikanth, Trainers, APSSDC	47%	PO1, PO2, PO3, PO5, PO9 PSO1, PSO2
21.	**G8**- Exposure to new Technologies	Workshop on Google Android Developer Phase-I	22.08.2018 to 24.08.2018	Ms. Hema, Mr.G. Srikanth, Trainers, APSSDC	45%	PO1, PO2, PO3, PO5, PO9 PSO1, PSO2
22.	**G5 –**Inadequate communication skills	Campus Placement Training	20.08.2018 to 30.08.2018	FACE Team	70%	PO10 PSO1
23.	**G7-**Lack of Coding skills; **G8**-Exposure to new Technologies	Workshop on Mean Stack Developer	16.08.2018 to 18.08.2018	AP Cloud Team	31%	PO1, PO2, PO3, PO5 PSO1, PSO2
24.	**G8**-Exposure to new Technologies	Workshop on Android Developer Certification Phase-I & Phase-II	11.08.2018 to 16.08.2018	Ms. Hema, Mr.G. Srikanth, Trainers, APSSDC	69%	PO1, PO2, PO3, PO4, PO5, PO9 PSO1, PSO2
25.	**G8**-Exposure to new Technologies	Workshop on Google Android Fundamentals	11.08.2018 to 16.08.2018	Ms. Hema, Mr.G. Srikanth, Trainers – APSSDC	31%	PO1, PO2, PO3, PO4, PO5 PSO1, PSO2
26.	**G9** –Inadequate aptitude skills	Campus Placement Training	26.07.2018 to 04.08.2018	FACE Team	35%	PO10 PSO1
27.	**G9** –Inadequate technical skills	Campus Placement Training	26.07.2018 to 04.08.2018	FACE Team	36%	PO4 PSO1
28.	**G5**- Inadequate Communication skills to acquire employability	Workshop on SCALE	26.07.2018 to 28.07.2018	Ms. Shreya Adabala, Mr. Sanket Dhadke, Mr. Rafae Shaik, Ms. Hashmitha Rani, Trainers, APSSDC	77%	PO6, PO7, PO9, PO10, PO12 PSO1
29.	**G2** –Motivation towards security issues	Seminar on Cyber Security Fundamentals by CISCO	25.07.2018	Mr. Navin Mehra, Regional Leader, CISCO	32%	PO3, PO5, PO10 PSO1, PSO2

Table B.2.1.2.c: Delivery details of the Content beyond the Syllabus CAYm1 (2018-19)

2017-18

Sl. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of Students	Relevance to POs, PSOs
1.	**G5** -Inadequate communication skills	Campus Placement Training	23.04.2018 to 05.05.2018	IGNITE Team	84%	PO10 PSO1
2.	**G9** -Inadequate aptitude skills	Campus Placement Training	23.04.2018 to 25.05.2018	CCC Team	24%	PO1, PO2, PO4 PSO1
3.	**G9** -Inadequate aptitude skills	Campus Placement Training	23.04.2018 to 05.05.2018	Knowledge Point Team	24%	PO1, PO2, PO4 PSO1
4.	**G9** -Inadequate technical skills	Campus Placement Training	29.05.2018 to 02.06.2018	Mr. Dinesh Reddy, Associate Professor, VIIT	72%	PO1, PO2, PO4, PO12 PSO1
5.	**G9** -Inadequate technical skills	Campus Placement Training	07.05.2018 to 25.05.2018	Mr. Dinesh Reddy, Associate Professor, VIIT	70%	PO1, PO2, PO4, PO12 PSO1
6.	**G9** -Inadequate technical skills	Campus Placement Training	07.05.2018 to 25.05.2018	Mr. Krishna Prasad, Director, KP Technologies	70%	PO1, PO2, PO4, PO12 PSO1
7.	**G8**- Exposure to new Technologies	Workshop on AWS Skill Guru	30.05.2018 to 31.05.2018	Mr.Sree Kiran Babu Mr. Syed Glouse, Trainers, APSSDC	33%	PO1, PO2, PO5, PSO1, PSO2
8.	**G7**- Lack of Coding skills; **G8**- Exposure to new Technologies	Workshop on IoT	08.05.2018 to 14.05.2018	Mr. M.V.Gopi, Mr.G.Srinivas, Trainers - APSSDC	88%	PO1, PO2, PO3, PO4, PO5, PO12 PSO1, PSO2
9.	**G7**-Lack of Coding skills; **G8**- Exposure to new Technologies	Workshop on Android Developer Certification (Phase-1 & Phase-2)	08.05.2018 to 14.05.2018	Ms.Hema, Mr.G.Srikanth, Trainers, APSSDC	30%	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
10.	**G1** -Motivation towards societal responsibility	Seminar on Every End Has a New Beginning	17.03.2018	Dr. R. Rajeswara Rao , Associate. Prof, UCEV-JNTUK	38%	PO3, PO5, PO10, PSO1, PSO2
11.	**G1** -Motivation towards societal responsibility	Seminar on Personality Development Programme	17.03.2018	Mr. Mallesh Annamaina, Corporate Trainer, Motional Speaker,	30%	PO3, PO5, PO10, PSO1, PSO2
12.	**G5** –Inadequate communication skills	Seminar on Effective Public Speaking	11.03.2018	Mrs. G. Madhavi , HR & Operations Manager,	32%	PO3, PO5, PO10, PSO1, PSO2

				Friends Indeed Netherlands Based Organization		
13.	**G2** -Motivation towards legal and safety issues	Guest Lecture on Awareness Program on Cyber Crime	08.03.2018	Mr. Y. Kishore Kumar, CI, Duvvada, Visakhapatnam	91%	PO2, P03, P04, PO6, PO8, PSO1
14.	**G8**- Exposure to new Technologies	Workshop on Robotics	10.02.2018 to 12.02.2018	Mr. Deepak Mourya, Mr. Jayesh Sharma	27%	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
15.	**G1** -Motivation towards societal responsibility	Guest Lecture on Developing Engineering Applications	04.01.2018	Mr. S. Chandra Mouli, Project Manager, BOA	98%	PO1, PO2, PO3 PO5, PO6, PSO1
16.	**G8** -Exposure to new technologies	Guest Lecture on Current trends in the IT sector	12.12.2017	Dr. G. Jaya Suma, Professor, Dept of IT, UCEV- JNTUK	35%	PO1, PO2, PO3 PO5, PSO1, PSO2
17.	**G1** -Motivation towards societal responsibility	Guest Lecture on Effective self-management	12.12.2017	Dr.B.Ramesh Babu, DPM, Neuropsychiatric	40%	PO6, PO8, PO9, PO10,PO11
18.	**G1** -Motivation towards societal responsibility	Guest Lecture on Women-health and Hygiene	12.12.2017	Mrs.Sudha Mavuri Associate Professor, GITAM	42%	PO6, PO7, PO8, PO10
19.	**G8**- Exposure to new Technologies	Workshop on Google Android Fundamentals	07.12.2017 to 9.12.2017	Ms.Hema, Mr.G.Srikanth, Trainers, APSSDC	76%	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
20.	**G7**- Lack of Coding skills; **G8**- Exposure to new Technologies	Workshop on Intensive Data Science	01.12.2017 to 04.12.2017	Mrs. Priya Darshini Ch, Software developer, Women Tech Makers	27%	PO1, PO2, PO3, PO4, PO5, PO12, PSO1, PSO2
21.	**G8**- Exposure to new Technologies	Workshop on Cyber Security	28.11.2017 to 29.11.2017	Sri.Venkata Rayulu B, Delivery Project Executive, IBM, Mr.Srikanth Nandigam Head Project Manager, Excel Global Solutions	65%	PO1, PO2, PO3, PO5, PO6, PSO1, PSO2
22.	**G7**- Lack of Coding skills;	Workshop on AP Cloud	27.11.2017 to	AP Cloud Team	58%	PO1, PO2, PO3,

	G8-Exposure to new Technologies	Mean Stack Developer	29.11.2017			PO5, PSO1, PSO2
23.	**G9** -Inadequate technical skills	Campus Placement Training	14.11.2017 to 24.11.2017	Mr. V. Uma Shankar, Assistant Professor, VIEW	64%	PO4, PSO1
24.	**G5** -Inadequate communication skills	Campus Placement Training	12.11.2017 to 01.12.2017	CCC Team	65%	PO10, PSO1
25.	**G8**-Exposure to new Technologies	Workshop on IoT	14.09.2017 to 15.09.2017	Mr. V.Srinadhrao, VIIT	27%	PO1, PO2, PO5, PO6, PSO1, PSO2
26.	**G9** -Inadequate technical skills	Campus Placement Training	30.08.2017 to 05.09.2017	Pseudo Code Team	62%	PO4, PSO1
27.	**G9** -Inadequate technical skills	Campus Placement Training	27.06.2017 to 19.07.2017	CCC Team	65%	PO4, PSO1
28.	**G9** -Inadequate aptitude skills	Campus Placement Training	26.08.2017	CCC Team	62%	PO4, PSO1
29.	**G7**-Lack of Coding skills; **G8**-Exposure to new Technologies	Workshop on Bootstrap	21.07.2017 to 24.07.2017	Mr. Ganesh, Trainer, Brain-O-Vision	56%	PO1, PO2, PO3, PO5, PSO1, PSO2
30.	**G5** -Inadequate communication skills	Campus Placement Training	07.07.2017 to 23.07.2017	CCC Team	65%	PO10, PSO1
31.	**G1** -Motivation towards societal responsibility	Motivational Seminar	03.07.2017	Mr. K. Venu Gopal, Financial Manager, Licenced Financial Analyst, Charter Holder	33%	PO3, PO5, PO10, PSO1, PSO2,
32.	**G3** -Motivation on environment sustainability	Seminar on Environment Sustainability	17.06.2017	Mr. K. Sumanth, Assistant Professor, Andhra University	100%	PO7, PSO1

Table B.2.1.2.d: Delivery details of the Content beyond the Syllabus (2017-18)

2016-17

Sl. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of Students	Relevance to POs, PSOs
1	**G9** -Inadequate aptitude skills	Campus Placement Training	27-04-2017 to 10-05-2017	CCC Team	64%	PO4, PSO1
2	**G5** -In adequate communication skills	Campus Placement Training	25-04-2017 to 10-05-2017	CCC Team	62%	PO10, PSO1
3	**G1** -Motivation towards societal responsibility	Guest Lecture on Personality Development through stress management and positive thinking	08-03-2017	Mr.S.K. Dubey, Joint Director, STPI	90%	PO6, PO8, PO9, PO10 PO12
4	**G8**-Exposure to new Technologies	Workshop on Virtual Reality	27-02-2017 to 28-02-2017	Mr. N. Venkatesh, Asst. Prof., JNTUK,	100%	PO1, PO2, PO3, PO5 PSO1, PSO2
5	**G1** -Motivation towards societal responsibility	Guest Lecture on Anger and Stress	21-02-2017	Dr. Shylaja Nair, St. Joseph's College for Women	100%	PO6, PO7, PO8, PO10
6	**G9** -Inadequate technical skills	Campus Placement Training	21-02-2017 to 18-03-2017	CATIA Team	64%	PO4, PSO1
7	**G9** -Inadequate aptitude skills	Campus Placement Training	21-02-2017 to 18-03-2017	Mr.Sekhar , Mr.Sajany, Trainers	63%	PO4, PSO1
8	**G1** -Motivation towards societal responsibility	Guest Lecture on Legal Awareness	20.02.2017	Mr.R.V.NagaSundar, Senior Civil Judge	100%	PO6, PO7, PO8, PO11, PO12,
9	**G9** -Inadequate technical skills	Campus Placement Training	06-02-2017 to 14-03-2017	CCC Team	62%	PO10, PSO1
10	**G9** -Inadequate technical skills	Campus Placement Training	30-12-2016 to 06-01-2017	CCC Team	62%	PO4 PSO1
11	**G7** -Inadequate technical skills	Campus Placement Training	12-12-2016 to 06-01-2017	Mr. Krishna Prasad, Director, KP Technologies	63%	PO4 PSO1, PSO2
12	**G9** -Inadequate technical skills	Campus Placement Training	28-11-2016	Mr. Krishna Prasad, Director, KP Technologies	93%	PO4 PSO1, PSO2
13	**G7** -Inadequate technical skills	Campus Placement	14-10-2016 to	Mr.Jatindhar,Mr.Shasidhar,	92%	PO4, PSO1

		Training	21-10-2016	Mr. Vishnu, Trainers, Talentio		
14	**G1** -Motivation towards societal responsibility	Seminar on Women Empowerment	04-10-2016	Mrs. Lakshmi potluti, CEO, DCF Ventures	80%	PO3, PO5, PO10 PSO1, PSO2
15	**G8**-Exposure to new Technologies	Workshop on Emerging Technologies	30-09-2016 to 01-10-2016	Mr. P BharagvNaidu, Mr. K Raja Kumar, Kony IT Services	100%	PO1, PO4, PO5 PSO1, PSO2
16	**G9** -Inadequate aptitude skills	Campus Placement Training	29-09-2016 to 13-10-2016	Mr. Jatindhar, Mr. Shasidhar, Mr. Vishnu, Trainers, Talentio	92%	PO4, PSO1
17	**G9** -Inadequate technical skills	Campus Placement Training	22-09-2016 to 24-09-2016	Mr. Krishna Prasad, Director, KP Technologies	93%	PO4, PSO1
18	**G9** -Inadequate aptitude skills	Campus Placement Training	16-08-2016 to 24-08-2016	Mr.Jatindhar,Mr.Shasidhar, Mr.Vishnu, Trainers, Talentio	90%	PO4, PSO1
19	**G1** -Motivation towards societal responsibility	Motivational Seminar	10-08-2016	Mr. K. Venu Gopal, Financial Manager, Licenced Financial Analyst,	82%	PO3, PO5, PO10 PSO1, PSO2,
20	**G9** -Inadequate aptitude skills	Campus Placement Training	01-08-2016 to 13-08-2016	Mr.Naveen,Mr.Rayule, Mr.Shankar, Trainers, CCC	90%	PO4, PSO1
21	**G9** -Inadequate technical skills	Campus Placement Training	19-07-2016 to 26-07-2016	Mr.Naveen,Mr.Rayule, Mr.Shankar,Trainers, CCC	92%	PO4, PSO1
22	**G9** -Inadequate technical skills	Campus Placement Training	11-07-2016 to 04-08-2016	Mr.Jatindhar, Mr.Shasidhar, Mr.Vishnu, Trainers, Talentio	92%	PO4, PSO1
23	**G8**-Exposure to new Technologies	Workshop on ISB Design and Thinking	09-07-2016 to 11-07-2016	Mr. K. Nooka Raju Mrs. M. Shyamala, Trainers	85%	PO1- PO7, PO9- PO11 PSO1
24	**G6-** Inadequate explore to real-time projects.	Workshop on Tech Project EXPO	22-06-2016 to 23-06-2016	Dr. E.Laxmi Lydiya, Assoc. Prof., JNTUK	50%	PO1, PO2, PO3, PO5, PO11 PSO1, PSO2

Table B.2.1.2.e: Delivery details of the Content beyond the Syllabus (2016-17)

C. Mapping of content beyond syllabus with the POs and PSOs (3)

Sl. No.	POs/PSOs/ Topics	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	Pre-placement Training	✔	✔	-	✔	-	-	-	-	-	✔	-	✔	✔	-
2	Training on Coding skills	✔	✔	-	✔	-	-	-	-	-	-	-	-	✔	✔
3	Guest lectures	-	-	-	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
4	Workshops	-	-	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
5	Technical/ Cultural Fests	-	-	-	-	-	-	-	-	✔	-	✔	-	✔	✔

Table B.2.1.2.f: Mapping of content beyond Syllabus with the POs & PSOs

Impact Analysis:

- Increased students project development skills.
- Enhancement in student's technical skills.
- Enhancement in student's aptitude skills.
- Enhancement in student's communication and life skills.
- Improvement in student's team spirit and leadership skills.
- Improvement of PO and PSO mapping on comparing with previous years.

2.2. Teaching-Learning Processes (100)

2.2.1. Describe processes followed to improve Quality of Teaching & Learning (25)

Effective content delivery, selection of teaching methodologies and effective assessment etc. plays a vital role in the teaching-learning process. The course coordinator will take the suggestions from the module coordinator and program coordinator to design the course delivery effectively in stipulated time.

A. Adherence to Academic Calendar

The institute academic calendar is circulated to the departments towards the end of the previous academic year in adherence to the university academic calendar. The department academic calendar is prepared to adhere to the institute calendar. The department academic calendar is implemented as per schedule with respect to the commencement of classwork, mid-I and mid-II examinations, last working day, end semester exams (theory) and end semester exams (practical) in each semester/year. In addition, FDPs, students counselling, remedial classes, guest lectures, workshop/symposia, industrial visits, Student Review Committee (SRC) meetings etc., are also included in the academic calendar.

A copy of the University calendar for the academic year 2019-20 for IV Year is given below:

Grams: "TECHNOLOGY"
Email: dapjntuk@gmail.com

Phone: 0884-2300991
Mobile: +9963993504

Directorate of Academic & Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/B. Tech/IV Year/2019-20 *Date: 30-05-2019*

Dr. A. Mallikarjuna Prasad
M.E, Ph.D.,
Director, Academic Planning

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR FOR B.TECH IV YEAR (2016 BATCH)

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**10.06.2019**		
I Unit of Instructions	10.06.2019	03.08.2019	8W
I Mid Examinations	05.08.2019	10.08.2019	1W
II Unit of Instructions	12.08.2019	05.10.2019	8W
II Mid Examinations	07.10.2019	12.10.2019	1W
Preparation & Practicals	14.10.2019	19.10.2019	1W
End Examinations	21.10.2019	02.11.2019	2W
Commencement of II Semester Class Work	**18.11.2019**		
II SEMESTER			
I Unit of Instructions	**18.11.2019**	11.01.2020	8W
I Mid Examinations	13.01.2020	23.01.2020	1W
II Unit of Instructions	24.01.2020	21.03.2020	8W
II Mid Examinations	23.03.2020	28-03-2020	1W
Preparation	30.03.2020	04.04.2020	1W
End Examinations	06.04.2020	18.04.2020	2W

A.M.prasad
Director Academic Planning

Copy to the Secretary to the Hon'ble Vice Chancellor, JNTUK.
Copy to PA to the Rector, JNTUK.
Copy to PA to the Registrar, JNTUK.
Copy to PA to the Director of Evaluation, JNTUK.

Figure B.2.2.1.a: University calendar for the Academic Year 2019-20

A copy of department academic calendar prepared for the academic year 2020-21, Semester- I and 2019-20 Sem- II is given below:

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada

Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC CALENDAR FOR A.Y: 2020-21, SEMESTER I

Month	Week	Mon	Tue	Wed	Thur	Fri	Sat	Sun	02.11.2020- Commencement of II, III,& IV B. Tech I Semester classwork	
NOV	1.	2	3	4	5	6	7	8	14 Nov – Diwali 25 Dec – Christmas 01 Jan – New Year Day	13 Jan – 16 Jan – Pongal 11 Mar – Maha Sivaratri
	2.	9	10	11	12	13	14	15		
	3.	16	17	18	19	20	21	22		
	4.	23	24	25	26	27	28	29	Second week of December – CCC Training for IV B. Tech students(Proposed) Second Week of February - Workshop on Machine Learning with python for III B. Tech students (Proposed)	
DEC	5.	30	1	2	3	4	5	6		
	6.	7	8	9	10	11	12	13		
	7.	14	15	16	17	18	19	20		
	8.	21	22	23	24	25	26	27		
	9.	28	29	30	31	1	2	3	25 Jan – 30 Jan - II, III & IV B. Tech I Semester MID1 examination 22 Feb – 27 Feb - II, III & IV B. Tech I Semester MID2 examinations 01 Feb - 06 Feb - II, III & IV B. Tech I External lab examinations 08 Feb – 20 Feb - II, III & IV B. Tech I Semester end theory examinations 18 Jan – 23 Jan - Revision Classes for MID1 15 Feb – 20 Feb - Revision Classes for MID2 DAC meeting – Last week of October PAC meeting – First week of Nov - Mar	
JAN	10.	4	5	6	7	8	9	10		
	11.	11	12	13	14	15	16	17		
	12.	18	19	20	21	22	23	24		
	13.	25	26	27	28	29	30	31		
FEB	14.	1	2	3	4	5	6	7		
	15.	8	9	10	11	12	13	14		
	16.	15	16	17	18	19	20	21		
	17.	22	23	24	25	26	27	28		
MAR	18.	1	2	3	4	5	6	7		
	19.	8	9	10	11	12	13	14		
	20.	15	16	17	18	19	20	21		

Figure B.2.2.1.b: Department Calendar for the Academic Year 2020-21Semester-I

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC CALENDAR FOR A.Y: 2019-20, SEMESTER II

Month	Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
									18.11.2019- Commencement of II, III,& IV B. Tech II Semester classwork
NOV	1.	18	19	20	21	22	23	24	25 Dec- Christmas 01 Jan- New Year day 13Jan -17 Jan- Pongal 21 Feb- Sivarathri 25 Mar- Ugadhi
	2.	25	26	27	28	29	30	1	
DEC	3.	2	3	4	5	6	7	8	
	4.	9	10	11	12	13	14	15	
	5.	16	17	18	19	20	21	22	Last week of Novr - CCC Training for III B. Tech students(Proposed) 05 Dec- Samskruti Club Event (Proposed) 12 Dec- Techkriti Club Event (Proposed) 26 Dec-27 Dec- Department Association Event Last week of December - Akshaya event. (Proposed) 11 Jan-12 Jan- Yuvatarang College Youth Fest 26 Jan – Republic day Last week of Jan - Training in communication skills for III B. Tech students. (Proposed) Last Week of Feb -Google Android Development – Phase-I 7 Mar- Women's day Second week of March -Technical fest. (Proposed)
	6.	23	24	25	26	27	28	29	
JAN	7.	30	31	1	2	3	4	5	
	8.	6	7	8	9	10	11	12	
	9.	13	14	15	16	17	18	19	
	10.	20	21	22	23	24	25	26	
	11.	27	28	29	30	31	1	2	
FEB	12.	3	4	5	6	7	8	9	
	13.	10	11	12	13	14	15	16	
	14.	17	18	19	20	21	22	23	
	15.	24	25	26	27	28	29	1	20 Jan -25 Jan- II, III & IV B. Tech II Semester MID1 examinations 23 Mar-28 Mar- II, III & IV B. Tech II Semester MID2 examinations 30 Mar- 04 Apr- II, III & IV B. Tech II Semester Project and External lab examinations 6 Apr -18 Apr- II, III & IV B. Tech II Semester end theory exams 6 Jan – 10 Jan - Revision Classes for MID1 16 Mar – 21 Mar - Revision Classes for MID2 PAC meeting – First week of December to March. 9 Dec – 11 Dec- Project Review 1 29Jan –31 Jan- Project Review 2 10 Mar – 12 Mar- Project Review 3
MAR	16.	2	3	4	5	6	7	8	
	17.	9	10	11	12	13	14	15	
	18.	16	17	18	19	20	21	22	
	19.	23	24	25	26	27	28	29	
APR	20.	30	31	1	2	3	4	5	

Figure B.2.2.1.c: Department Calendar for the Academic Year 2019-20 Semester-II

The activities taking place every day in the department is implemented by the faculty members and monitored by the HOD and the Principal for the smooth functioning of the department.

B. Use of various instructional methods and pedagogical initiatives

The Department of CSE adopts various innovative pedagogical methods along with traditional methods in content delivery keeping in view of students' limited attention span, processing the information, learning styles and motivation. The course coordinator holds meeting well in advance of the commencement of classwork with all faculties handling a course to discuss the topic wise pedagogical methods to be adopted in day-to-day classwork. For a particular topic in a course, either a single or multiple methods are implemented depending on its difficulty.

The Outcome-Based Education model is implemented in the department by blending student centric environment with the traditional teaching for effective teaching process by following various pedagogical strategies:

1. Lecture methods
2. Dynamic Classroom: Vignettes, Pictures, Schematics, Graphs and Open-ended problems
3. Dissemination of Content through Course Websites: Course sites
4. Use of Learning Management Tools: Canvas, MOOCs, Moodles, Virtual Labs
5. Inquiry Based Learning Strategies: Flipped classroom, Game based learning, Reciprocal questioning
6. Collaborative Learning Activities: Jigsaw, STAD, Case study, Stump your partner
7. Seminar method
8. Activity Learning: Think Pair Share, Think Aloud Pair Problem Solving, In-class teams

1. Lecture method

The faculty use chalk, board and audio-visual aids in teaching. The faculty organizes the activities of teaching to bring a desirable change in the behaviour of the student. Students are encouraged to actively interact during the lecture hour by getting their doubts clarified. Students achieve the learning objectives of the class.

Process:

Step 1: Opening

State the purpose of the lecture. Use generalized statements to capture the focused attention of the students. Use Multi-media resources and emphasize why the lecture is important. Specify what is expected of the students to learn. Ask the students to think of other examples.

Step 2: Presentation

Organize the main body of the lecture into subheadings that are associated with the concepts to be explored. The subheadings should reflect the objectives of the lecture. Video graphics can be used to illustrate a few topics.

Step 3: Learner-Instructor two-way Interaction

In order to encourage students to participate effectively in their learning in an efficient manner, the instructor's questions should be embedded in the students' notes, or available on an online site for the students, well in advance of the lecture. Likewise, the instructor should solicit questions from students, in advance of the lectures, that are to be addressed in class.

Step 4: Formative Assessment

The students are assessed by giving at the most, 5 multiple-choice questions to attempt in class. Then, the instructor should provide immediate feedback on those questions. The analysis of their results in real time will provide the basis for the feedback of the lecture explained in the class.

Step 5: Conclusion

The instructor draws attention to the most important concepts of the lecture by providing a summary of the main ideas and consolidating the concept in the last 5 minutes of the class.

Implementation:

This method is implemented by all faculties to the maximum number of topics in all the courses of the program. Various teaching aids like chalk and board, Power point presentations, Models etc., are used for better understanding of a concept by the student.

Figure B.2.2.1.d: Lecture Demonstration using PPT

Outcomes:

- Achieves high order cognitive objectives i.e., application, analysis, and synthesis.
- Efficient method for delivering substantial amounts of information to large numbers of student.
- Framework or overview for subsequent learning, e.g., reading assignments, small group activities, discussion.
- Offers current information (more up to date than most texts) from many sources.
- Provides a summary or synthesis of information from different sources.
- Creates interest in a subject as lecturers transmit enthusiasm about their discipline.

Impact Analysis:

- Concentration among the students has been improved.
- Student-faculty interaction is improved.
- Learning abilities of the student are understood by the faculty.

2. Dynamic classroom: Vignettes, Pictures, Schematics, Graphs and Open-ended Problems

- The Dynamic Classroom is a combination environment with a careful mix of traditional teaching and personalized learning. The culture of dynamic classroom helps in understanding the typical topics with approaches like attention of the students by seeing, hearing, reflecting, reasoning logically and intuitively.

Sl. No	Name of the faculty	Year/ Sem	Course	Activity conducted	Topic	No. of Students Participated	Relevance to POs & PSOs	Activity Outcome
1.	Dr. P. Vijaya Bharati	IV-I	Web Technologies	Open ended Problems	Java Script Examples	58	PO1, PO9, PO10 PSO1, PSO2	Students were involved in discussion actively which improved their learning
2.	Mrs. M. Mamata Laxmi	II-II	Software Engineering	Writing Assignments	SDLC Life cycle	60	PO1, PO2, PO9, PO10 PSO1, PSO2	Activity provided motivational learning to students
3.	Mr.I. Raju	IV-I	Big data Analytics	Models	HDFC Architecture	61	PO1, PO9, PO10, PO12 PSO1, PSO2	Grab the attention of the students for the entire session
4.	Mr.R. Ravi	IV-I	SADP	Schematics	Design Patterns	60	PO1, PO2, PO9, PO10 PSO1, PSO2	Weak students actively participated in discussions
5.	Ms. Y. Vineela Sraya	III-II	Computer Networks	Graphs	Protocols	62	PO1, PO2, PO9, PO10 PSO1, PSO2	Self-learning capability of the student is improved

Table B.2.2.1.a: Dynamic activities conducted by the faculty

Outcomes:

- Engagement of students and motivation to learn using technology.
- Assistance to students in the classroom to achieve their potential.

Impact Analysis:

- Helped students to improve capabilities of learning.
- Developed personal and interpersonal skills.
- Improved the ability to think both creatively and critically.
- Improved visionary leadership within the class.

3. Dissemination of Content through Course Websites:

The faculty members are self-motivated to create course websites to make available of the course content like syllabus, course delivery plan, lecture notes of all units and previous question papers. This facility helps the students to learn more in less time. As an educator we need to be very particular in inducting content to the learners in short span of time.

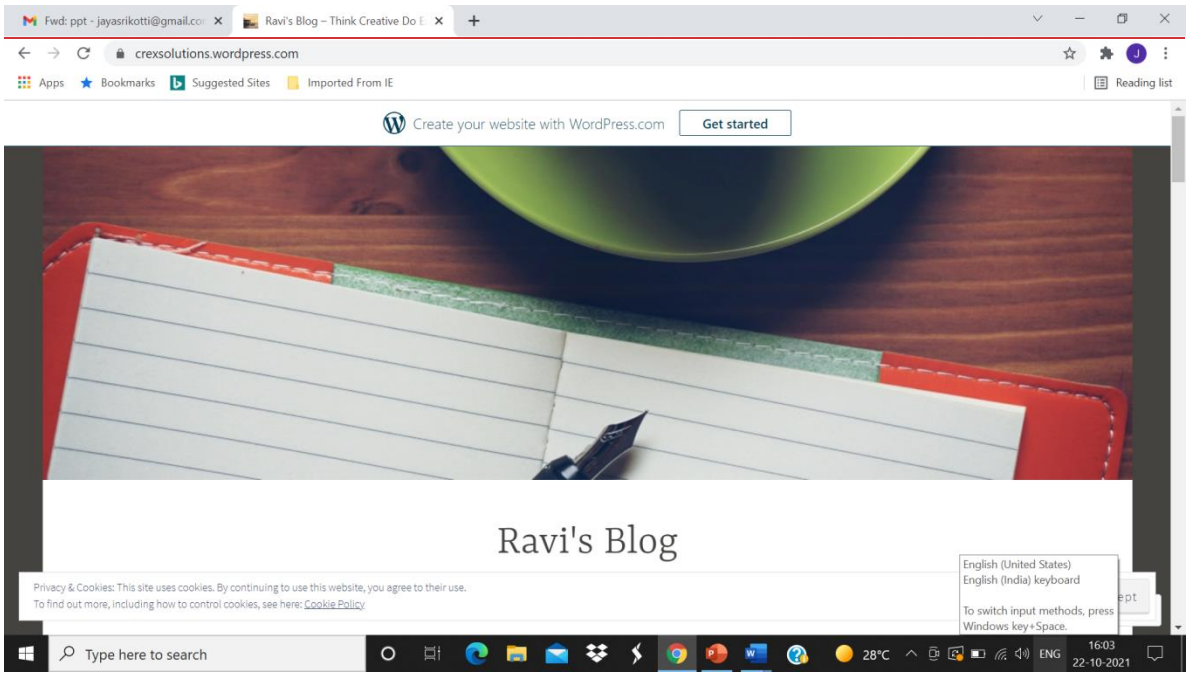


Figure B.2.2.1.f: Course website https://crexsolutions.wordpress.com/

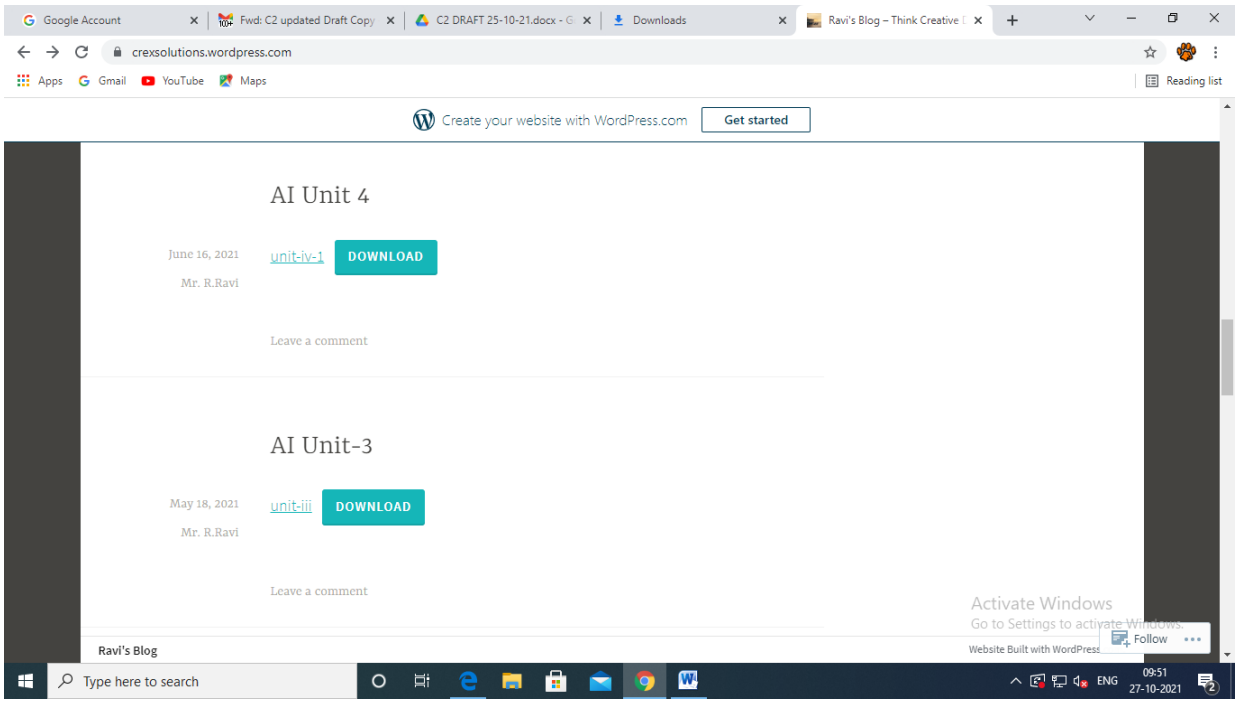


Figure B.2.2.1.g: Availability of course content in course website

The Department of CSE also hosts a website https://sites.google.com/view/viewcse/in which the data related to all courses of all semesters is maintained. It has a syllabus, Lecture plans, Unit materials, Assignment questions, Mid question papers after the exam, University previous question papers and end results. All the students from the Department of CSE are allowed to access it.

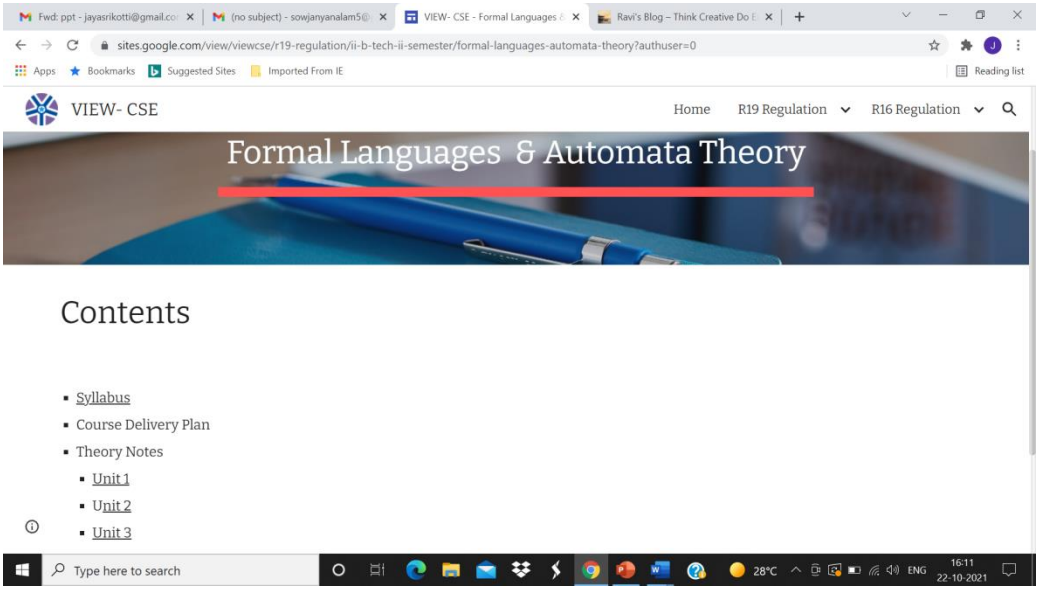


Figure B.2.2.1.h: Available course content in Department website

Implementation:

Sl. No.	Name of the faculty	Year/ Sem	Course Name	Platform	Utility
1	Dr. K. Vijaya Kumar	IV-II	Machine Learning	Course sites	Course Syllabus, Lesson Plan, Lecture material for all the units
2	Mr. S. Ram Prasad Reddy	II-I	Statistics with R Programming	Canvas	Assignments
3	Mrs. R. Pravallika	IV-I	Cryptography and Network Security	Google Classroom	Lecture material for all the units, Video lectures
4	Mr. I. Raju	II-II	Java Programming	Google Classroom	Assignments, Video Lectures
5	Ms. K. Deepthi Krishna	III-I	Compiler Design	Google Classroom	Lecture material for all the units, Video lectures

Table B.2.2.1.b: Faculty using various Course websites

Outcomes:

- Flexibility to learn one's own pace.
- Encourages self-study.
- Improves lifelong learning experience.

4. Use of Learning Management Tools: Canvas, MOOCs, Moodles, Virtual Labs

The Department of CSE uses LMS tools such as Canvas, MOOCs, Moodles, Virtual Labs etc., to make the students submit their assignments, learn online and implement the experiments to gain knowledge about the concepts learnt in the class. Google Classroom, Webex, Zoom, Microsoft Teams etc. have been utilized by the faculty to teach the courses through online.

Sl. No.	Name of the Faculty	Course Name	Units Covered	LMS Tool	Mode of Conduction	No. of Students Participated	Relevance to POs & PSOs
1	Dr. K. Vijaya Kumar	Machine Learning	VI	Google Classroom	Online Class and Video Lectures	140	PO1-PO5 PSO1, PSO2
2	Mrs. M. Mamatha Laxmi	Software Engineering	V, VI	Google Classroom	Online Class	150	PO1-PO5 PSO1, PSO2
3	Mr. I. Raju	Java Programming	II, III	Google Classroom	Online Class and Video Lectures	163	PO1-PO5 PSO1, PSO2
4	Ms.Y.Vineela Sravya	Computer Networks	V	Google Classroom	Online Class and Video Lectures	124	PO1-PO5 PSO1, PSO2
5	Dr. P. Vijaya Bharati	Concurrent and Parallel Programming	V, VI	GoTo Meeting, Google Classroom	Online Class and Video Lectures	170	PO1-PO5 PSO1, PSO2
6	Mrs. R. Pravallika	Computer Organization	VI	Google Classroom	Online Class and Video Lectures	156	PO1-PO5 PSO1, PSO2
7	Mrs. G. Sandhya	Advanced Data Structures	III, IV	Google Classroom	Online Class and Video Lectures	140	PO1-PO5 PSO1, PSO2
8	Mrs. G. Pavani Latha	Artificial Intelligence	V	Google Classroom	Video Lectures	125	PO1-PO5 PSO1, PSO2
9	Mrs. N. Sowjanya Kumari	Operating Systems	III, VI	Microsoft Teams	Online Class	160	PO1-PO5 PSO1, PSO2
10	Mr. R. Ravi	DDS	VI	GoTo Meeting, Google Classroom	Online Class and Video Lectures	184	PO1-PO5 PSO1, PSO2

11	Mr. D. Rajendra Dev	OOAD	IV, V	Screen Recorder, Google Classroom	Online Class	132	PO1-PO5 PSO1,PSO2
12	Ms. Rita Roy	PPL	VI	Screen Recorder, Google Classroom	Online Class and Video Lectures	145	PO1-PO5 PSO1, PSO2
13	Mrs. J. Hima Bindu	Data Structures	IV, V, VI	Microsoft Teams	Online Class	180	PO1-PO5 PSO1, PSO2
14	Mrs.Sk. Rahimunnisa	FLAT	V, VI	Google Classroom	Online Class and Video Lectures	146	PO1-PO5 PSO1, PSO2
15	Ms. B. Haritha Lakshmi	Java Programming	V, VI	Google Classroom	Video Lectures	123	PO1-PO5 PSO1, PSO2

Table B.2.2.1.c: Faculty using various LMS tools

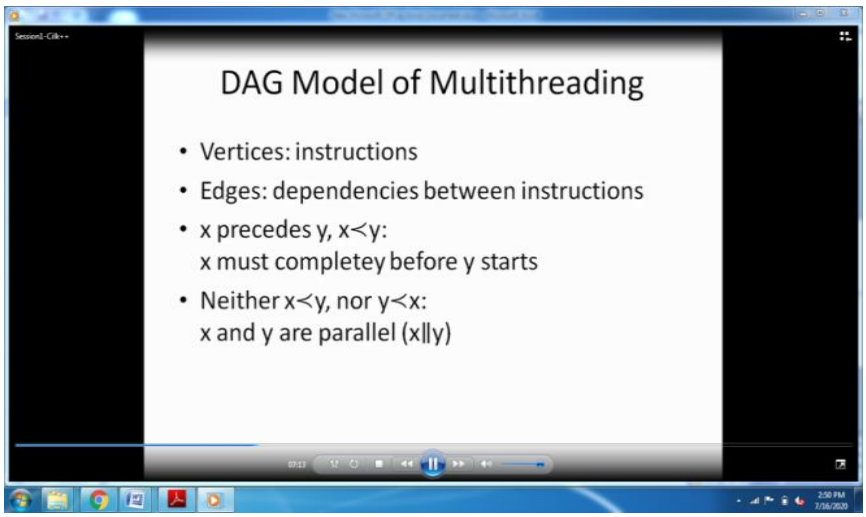


Figure B.2.2.1.i (a): Video Lectures and Online Classes

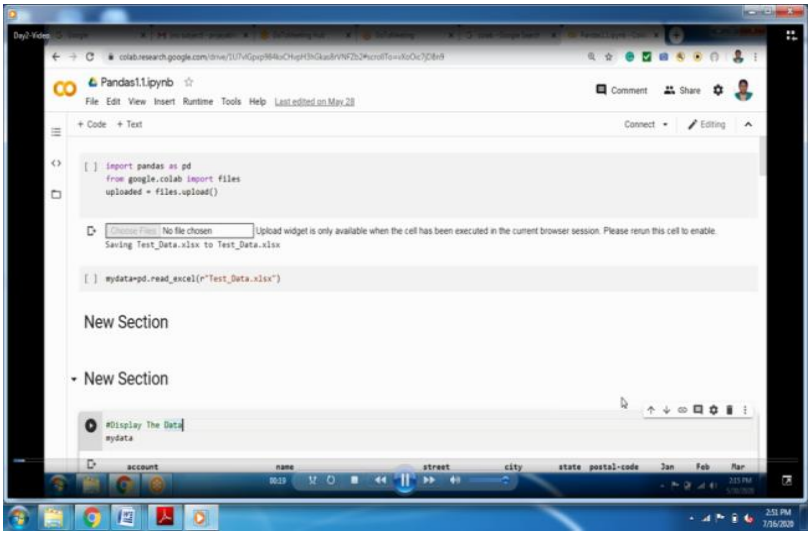


Figure B.2.2.1.i (b): Video Lectures and Online Classes

Outcomes:

- Solve problems by applying ICT method.
- Access video lectures at any time.
- Study individually.
- Enhance the interest of the students.

Impact Analysis:

- Students' improved their lifelong learning skills.
- Students enhanced their self-learning skills

5. Inquiry-Based Learning Strategies: Flipped classroom, Game-based learning, reciprocal questioning

Inquiry-based learning is an approach to learning that emphasizes the student's role in the learning process. Rather than the teacher telling students what they need to know, students are encouraged to explore the material, ask questions, and share ideas. Confirmation enquiry, structure enquiry, guided enquiry and open enquiry are different inquired based strategies adopted in the department to make the classroom more students centric.

Flipped Classroom

The flipped classroom is a teaching method that allows teachers to involve students actively in the classroom. Teachers provide recorded video tutorials to the students as homework and use class time for solving the problems and exercises. Flipped classrooms help two-way communications between teacher and student. It improves the interpersonal and intrapersonal skills of the students.

Process:

The steps of the flipped classroom are:

- Students are assigned with reading or video lectures of the content to learn outside the classroom as a home assignment.
- The Class room is used to discuss the exercise problems and solve them with some activities like quiz, group discussions and mini-projects.
- Students go back home and solve some more assignments and prepare for the next topic assigned by the teacher.

Implementation of Flipped classroom:

Activity Outcomes: At the end of this activity, student will be able to:

- Demonstrate the AVL Tree rotations
- Identify and Apply appropriate rotation operation on the given unbalanced tree to convert into AVL Tree
- Illustrate AVL Tree advantages in database applications for frequent lookups

Course Name: **Advanced Data Structures**

Topic: **AVL Trees**

Open source NPTEL video: https://nptel.ac.in/courses/106/102/106102064/

Figure B.2.2.1.j: Video Lecture and Flipped Classroom

Pre-Activity Assessment:

Sl.No	Regd.No.	Q1(5M)	Q2(5M)	TOTAL (10M)
1	16NM1A0501	4	5	9
2	16NM1A0502	4	3	7
3	16NM1A0503	4	4	8
4	16NM1A0504	5	3	8
5	16NM1A0505	4	3	7
6	16NM1A0507	4	3	7
7	16NM1A0508	4	4	8
8	16NM1A0509	3	4	7
9	16NM1A0510	3	4	7
10	16NM1A0511	3	2	5
11	16NM1A0512	3	4	7
12	16NM1A0513	3	3	6
13	16NM1A0514	3	4	7
14	16NM1A0515	3	4	7
15	16NM1A0516	3	3	6
16	16NM1A0517	3	3	6
17	16NM1A0518	4	4	8

18	16NM1A0519	4	5	9
19	16NM1A0520	4	4	8
20	16NM1A0521	4	2	6
21	16NM1A0523	3	4	7
22	16NM1A0524	4	4	8
23	16NM1A0525	3	3	6
24	16NM1A0526	3	2	5
25	16NM1A0527	4	3	7
26	16NM1A0528	4	3	7
27	16NM1A0529	3	3	6
28	16NM1A0530	5	4	9
29	16NM1A0531	4	4	8
30	16NM1A0533	3	2	5
31	16NM1A0534	4	3	7
32	16NM1A0535	3	3	6
33	16NM1A0536	4	5	9
34	16NM1A0537	3	4	7
35	16NM1A0539	3	3	6
36	16NM1A0541	4	3	7
37	16NM1A0542	5	3	8
38	16NM1A0543	4	4	8
39	16NM1A0544	3	4	7
40	16NM1A0545	3	4	7
41	16NM1A0546	4	4	8
42	16NM1A0547	4	3	7
43	16NM1A0548	3	4	7
44	16NM1A0549	4	5	9
45	16NM1A0550	4	4	8
46	16NM1A0551	4	4	8
47	16NM1A0552	3	3	6
48	16NM1A0553	4	3	7

49	16NM1A0554	4	4	8
50	16NM1A0555	3	4	7
51	16NM1A0556	4	3	7
52	16NM1A0557	5	4	9
53	16NM1A0558	4	3	7
54	16NM1A0559	4	4	8
55	16NM1A0560	4	3	7
56	16NM1A0561	4	4	8
57	16NM1A0562	4	5	9
58	16NM1A0563	3	2	5

Table B.2.2.1.d: Pre-Activity Assessment for Flipped Class Room

Sl.No	Name of the faculty	Year/Sem	Course	Topic	No. of Students Participated	Relevance to POs & PSOs
1	Mrs. SK. Rahimunnisa	II-II	Formal Languages and Automata Theory	DFA and NFA	63	PO1-PO5 PSO1, PSO2
2	Mrs. R. Pravallika	IV-I	Cryptography and network Security	Email Security	61	PO1-PO5 PSO1, PSO2
3	Mrs.G. Sandhya	II-II	Advanced Data Structures	AVL Trees	65	PO1-PO5 PSO1, PSO2
4	Mrs. G. Pavani Latha	III-II	Artificial Intelligence	Fuzzy Logic	63	PO1-PO5 PSO1, PSO2
5	Mr.D. Rajendra Dev	III-II	Software Testing methodologies	J- Meter Testing	60	PO1-PO5 PSO1, PSO2
6	Mrs. N. Sowjanya Kumari	III-I	Object oriented analysis and Design	Class Diagram	63	PO1-PO5 PSO1, PSO2
7	Ms. Rita Roy	II-I	Computer Graphics	Circle Drawing Algorithm	64	PO1-PO5 PSO1, PSO2

Table B.2.2.1.e: Faculty implementing Flipped Classroom

Outcomes:

- Utilization of time efficiently.
- Achieve active learning.
- Involve students in learning.
- Enhance in learning.

Impact Analysis:

Improvement in student learning before and after activity which is clear from Table: B.2.2.1.d.

6. Collaborative Learning Activities: Jigsaw, STAD, Case study, Stump your partner

Collaborative learning involves implementing projects, writing reports, debates, group discussion and other activities. Collaborative learning can be conducted in the class by using different types of methodologies like Stump your partner, Student Teams Achievements Division (STAD), Jigsaw, Teams Games Tournaments (TGT), etc.

JIGSAW

In this activity two student groups, HOME (JIGSAW) groups and EXPERT groups are formed. The size of each group is 06 students for this activity. The HOME group consists of heterogeneous learners and the EXPERT group consists of leaders of the HOME group.

Implementation of Activity

Course **:** Computer Organization

Class **:** II CSE-A, II SEM

Topic **:** Von Neumann Architecture

Activity Chosen **:** JIGSAW

Concept for activity:

1. Development of the stored-program concept.
2. Design limitations
3. Computer Organization | Von Neumann architecture.

Goals of this activity:

At the end of this activity, students will be able to:

1. Understand the architecture involves both the volatile and the non-volatile memory.
2. Describe architecture provides separate buses for program and data memory.
3. Explain various architecture provides separate buses for program and data memory.

Quiz Marks for Homogeneous Teams

Group No.	Expert Group Name	Student Roll No	Member ID	Student learning ability	Topic Assigned to group
1	EG1	18NM1A0501	A1- Leader	Strong Global Learner	Simple
		18NM1A0502	B1-Leader	Strong Global Learner	
		18NM1A0503	C1-Leader	Strong Global Learner	
		18NM1A0504	D1-Leader	Strong Global Learner	
		18NM1A0507	E1-Leader	Strong Global Learner	
		18NM1A0558	F1-Leader	Strong Global Learner	
2	EG2	18NM1A0544	G1-Leader	Strong Active Learner	Object-Oriented
		18NM1A0553	H1-Leader	Strong Active Learner	
		18NM1A0525	I1-Leader	Strong Active Learner	
		18NM1A0559	J1-Leader	Strong Active Learner	
		18NM1A0514	K1-Leader	Strong Active Learner	
3	EG3	18NM1A0530	L1-Leader	Strong Active Learner	Portable
		18NM1A0531	A4	Strong Active Learner	
		18NM1A0506	B4	Strong Active Learner	
		18NM1A0557	C4	Strong Active Learner	
		18NM1A0537	D4	Strong Active Learner	
4	EG4	18NM1A0556	E4	Strong Active Learner	Platform independent
		18NM1A0512	F4	Strong Active Learner	
		18NM1A0535	G4	Strong Active Learner	
		18NM1A0551	H4	Strong Active Learner	
		18NM1A0539	I4	Strong Active Learner	
5	EG5	18NM1A0516	I6	Strong Active Learner	Secured
		18NM1A0548	J4	Strong Active Learner	
		18NM1A0519	K4	Strong Active Learner	
		18NM1A0540	L4	Strong Active Learner	
6	EG6	18NM1A0528	A3	Strong Visual Learner	Robust
		18NM1A0532	B3	Strong Visual Learner	
		18NM1A0554	C3	Strong Visual Learner	
		18NM1A0552	D3	Strong Visual Learner	
		18NM1A0522	E3	Strong Visual Learner	
7	EG7	18NM1A0510	F3	Strong Visual Learner	Architecture Neutral
		18NM1A0545	F5	Strong Visual Learner	
		18NM1A0546	G3	Strong Visual Learner	
		18NM1A0517	G5	Strong Visual Learner	
8	EG8	18NM1A0509	H2	Strong Visual Learner	Interpreted
		18NM1A0527	H5	Strong Visual Learner	
		18NM1A0518	I2	Strong Visual Learner	
		18NM1A0547	I5	Strong Visual Learner	
9	EG9	18NM1A0515	J2	Strong Visual Learner	High
		18NM1A0534	J5	Strong Visual Learner	

		18NM1A0555	K2	Strong Visual Learner	Performance
		18NM1A0524	K5	Strong Visual Learner	
10	EG10	18NM1A0521	L2	Strong Visual Learner	Multithreaded
		18NM1A0550	L5	Strong Visual Learner	
11	EG11	18NM1A0508	A2	Strong Sequential Learner	Distributed
		18NM1A0513	B2	Strong Sequential Learner	
		18NM1A0505	C2	Strong Sequential Learner	
		18NM1A0560	D2	Strong Sequential Learner	
		18NM1A0536	E2	Strong Sequential Learner	
		18NM1A0542	F2	Strong Sequential Learner	
		18NM1A0523	G2	Strong Sequential Learner	
12	EG12	18NM1A0529	A2	Strong Sequential Learner	Dynamic
13	EG13	18NM1A0541	D5	Strong Sensing Learner	High Performance
14	EG14	18NM1A0543	H3	Strong Verbal Learner	Robust
		18NM1A0526	I3	Strong Verbal Learner	
15	EG15	18NM1A0520	J3	Strong Intuitive Learner	Platform independent
		18NM1A0538	K3	Strong Intuitive Learner	
		18NM1A0533	L3	Strong Intuitive Learner	

Table B.2.2.1.f (a): Formation of Homogeneous Groups for JIGSAW

Formation of EXPERT groups (Homogeneous)

Sl. No	Expert Group Name	Expert Group Members
1.	EG1	A1, B1, C1, D1, E1, F1
2.	EG2	G1, H1, I1, J1, K1
3.	EG3	L1, A4, B4, C4,
4.	EG4	E4, F4, G4, H4, I4
5.	EG5	I6, J4, K4, L4
6.	EG6	A3, B3, C3, D3, E3
7.	EG7	F3, F5, G3, G5
8.	EG8	H2, H5, I2, I5
9.	EG9	J2, J5, K2, K5
10.	EG10	L2, L5
11.	EG11	A2, B2, C2, D2, E2, F2, G2
12.	EG12	A2, D5, H3, I3
13.	EG13	J3, K3, L3

Table B.2.2.1.f (b): Formation of Expert Groups

Figure B.2.2.1.k: JIGSAW method in Classroom

Learning Styles	Number of students	Percentage of students (%)
Active	16	26.67
Reflective	3	5.00
Sensing	3	5.00
Intuitive	3	5.00
Visual	21	35.00
Verbal	2	3.33
Sequential	7	11.67
Global	6	10.00

Table B.2.2.1.f (c): The student learning styles score

Group No.	JIGSAW Home Group	Student Roll No	Member ID	Student learning ability	Topic Assigned to group
1	C.V. Raman	18NM1A0501	A1- Leader	Strong Global Learner	Simple
		18NM1A0508	A2	Strong Sequential Learner	
		18NM1A0528	A3	Strong Visual Learner	
		18NM1A0544	A4	Strong Active Learner	
		18NM1A0549	A5	Strong Reflective Learner	
2	G. N. Ramachandra	18NM1A0502	B1-Leader	Strong Global Learner	
		18NM1A0513	B2	Strong Sequential Learner	

	n (B)	18NM1A0532	B3	Strong Visual Learner	Object-Oriented
		18NM1A0553	B4	Strong Active Learner	
		18B41A0501	B5	Strong Reflective Learner	
		18NM1A0505	B6	Strong Sequential Learner	
3	Srinivasa Ramanujan (C)	18NM1A0503	C1-Leader	Strong Global Learner	Portable
		18NM1A0560	C2	Strong Sequential Learner	
		18NM1A0554	C3	Strong Visual Learner	
		18NM1A0525	C4	Strong Active Learner	
		18NM1A0511	C5	Strong Reflective Learner	
4	Satyendra Nath Bose (E)	18NM1A0504	D1-Leader	Strong Global Learner	Platform independent
		18NM1A0536	D2	Strong Sequential Learner	
		18NM1A0552	D3	Strong Visual Learner	
		18NM1A0559	D4	Strong Active Learner	
		18NM1A0541	D5	Strong Sensing Learner	
5	Shanti Swaroop Bhatnagar (F)	18NM1A0507	E1-Leader	Strong Global Learner	Robust
		18NM1A0542	E2	Strong Sequential Learner	
		18NM1A0522	E3	Strong Visual Learner	
		18NM1A0514	E4	Strong Active Learner	
		18NM1A0530	E5	Strong Active Learner	
6	M. S. Swaminathan (G)	18NM1A0558	F1-Leader	Strong Global Learner	Architecture Neutral Interpreted
		18NM1A0523	F2	Strong Sequential Learner	
		18NM1A0510	F3	Strong Visual Learner	
		18NM1A0531	F4	Strong Active Learner	
		18NM1A0545	F5	Strong Visual Learner	
7	Raj Reddy (H)	18NM1A0506	G1-Leader	Strong Active Learner	High Performance
		18NM1A0529	G2	Strong Sequential Learner	
		18NM1A0546	G3	Strong Visual Learner	
		18NM1A0557	G4	Strong Active Learner	
		18NM1A0517	G5	Strong Visual Learner	
8	Har Gobind Khorana (K)	18NM1A0537	H1-Leader	Strong Active Learner	Robust
		18NM1A0509	H2	Strong Visual Learner	
		18NM1A0543	H3	Strong Verbal Learner	
		18NM1A0556	H4	Strong Active Learner	
		18NM1A0527	H5	Strong Visual Learner	
9	K. S. Chandrasekh aran (I)	18NM1A0512	I1-Leader	Strong Active Learner	Architecture Neutral Interpreted
		18NM1A0518	I2	Strong Visual Learner	
		18NM1A0526	I3	Strong Verbal Learner	

		18NM1A0535	I4	Strong Active Learner	
		18NM1A0547	I5	Strong Visual Learner	
10	Archimedes (J)	18NM1A0551	J1-Leader	Strong Active Learner	High Performance
		18NM1A0515	J2	Strong Visual Learner	
		18NM1A0520	J3	Strong Intuitive Learner	
		18NM1A0539	J4	Strong Active Learner	
		18NM1A0534	J5	Strong Visual Learner	
11	Rutherford (K)	18NM1A0516	K1-Leader	Strong Active Learner	Multithreaded
		18NM1A0555	K2	Strong Visual Learner	
		18NM1A0538	K3	Strong Intuitive Learner	
		18NM1A0548	K4	Strong Active Learner	
		18NM1A0524	K5	Strong Visual Learner	
12	Indrani Bose (L)	18NM1A0519	L1-Leader	Strong Active Learner	Distributed
		18NM1A0521	L2	Strong Visual Learner	
		18NM1A0533	L3	Strong Intuitive Learner	
		18NM1A0540	L4	Strong Active Learner	
		18NM1A0550	L5	Strong Visual Learner	

Table B.2.2.1.f (d): Formation of JIGSAW Home Groups (Heterogeneous Groups)

Sl.No	Regd. No.	Name of the Student	Instructive	Created Interest on the Subject	Positive Response	Enjoyable	Good Interaction and Cooperation in the class
1	18NM1A0501	Abbina Yamini Sirivennela	Y	Y	Y	Y	Y
2	18NM1A0502	Abbireddy Sushma Srilaya	Y	Y	Y	Y	Y
3	18NM1A0503	Adaka Vani			Y	Y	Y
4	18NM1A0504	Addagarla Baby Vyshnavi	Y	Y	Y	Y	Y
5	18NM1A0505	Akkireddi Deva Divya	Y	Y	Y	Y	Y
6	18NM1A0506	Alajangi Dharani	Y		Y	Y	Y
7	18NM1A0507	Allu Kavya	Y	Y	Y	Y	Y
8	18NM1A0508	Angada Vandana Satya	Y	Y	Y		Y
9	18NM1A0509	Badda Sheerisha	Y	Y	Y	Y	Y
10	18NM1A0510	Bagadi Dharani	Y	Y	Y	Y	Y
11	18NM1A0511	Bagadi Jyoshna	Y		Y	Y	Y
12	18NM1A0512	Balireddy Latha Amrutha		Y	Y	Y	Y
13	18NM1A0513	Bandaru Durga Rukmini	Y	Y	Y	Y	Y
14	18NM1A0514	Bandaru Sravya	Y	Y	Y	Y	
15	18NM1A0515	Batchu Satya Sri	Y	Y	Y	Y	Y
16	18NM1A0516	Boddu Sreeja	Y	Y	Y	Y	Y
17	18NM1A0517	Bommireddy Divya	Y	Y	Y	Y	Y
18	18NM1A0518	B Sri Lakshmi Prasanna	Y	Y	Y	Y	Y
19	18NM1A0519	B Kusuma Sandhya Rani	Y	Y	Y	Y	Y
20	18NM1A0520	Chaitanya Lakshmi Ch	Y	Y	Y	Y	Y

21	18NM1A0521	Chavi Agarwal	Y	Y	Y	Y	Y
22	18NM1A0522	Chintakayala Anvitha	Y	Y	Y		Y
23	18NM1A0523	Chintakayala Nandini	Y	Y	Y		Y
24	18NM1A0524	Danthuluri Reetu Varma	Y	Y	Y	Y	Y
25	18NM1A0525	Dasari Leela Jyoshna	Y	Y	Y	Y	Y
26	18NM1A0526	D Sobha Anantha Lakshmi		Y	Y	Y	Y
27	18NM1A0527	Deepthi Sahu	Y	Y		Y	Y
28	18NM1A0528	Devara Sai Prathyusha	Y	Y	Y	Y	Y
29	18NM1A0529	D Lakshmi Vimala	Y	Y	Y	Y	Y
30	18NM1A0530	Dharmala Prasanna Priya	Y		Y	Y	Y
31	18NM1A0531	Doddi Prathyusha	Y	Y	Y	Y	Y
32	18NM1A0532	Doddi Tejaswini	Y	Y		Y	Y
33	18NM1A0533	Ella Indu	Y	Y	Y	Y	Y
34	18NM1A0534	Ettula Preethi	Y	Y	Y	Y	Y
35	18NM1A0535	Gajavelli Venkata Praveena	Y	Y	Y	Y	Y
36	18NM1A0536	Ganagalla Pravallika	Y	Y	Y	Y	Y
37	18NM1A0537	Ganapathiraju Srujitha	Y	Y	Y	Y	Y
38	18NM1A0538	Gandepalli Bhavya	Y	Y	Y	Y	Y
39	18NM1A0539	Gandham Roja Devi	Y	Y	Y	Y	Y
40	18NM1A0540	Gandi Anusha	Y	Y	Y	Y	Y
41	18NM1A0541	Gandi Divya		Y		Y	Y
42	18NM1A0542	Ganta Sameera	Y	Y	Y	Y	Y

43	18NM1A0543	Godrihala Sudesha	Y	Y	Y	Y	Y
44	18NM1A0544	Gokada Gayatri	Y	Y	Y	Y	Y
45	18NM1A0545	Gollavilli Priyanka	Y	Y	Y	Y	Y
46	18NM1A0546	Gollu Anthony Rishika	Y	Y	Y	Y	Y
47	18NM1A0547	Gondesi Lakshmi Gowtami	Y	Y	Y	Y	Y
48	18NM1A0548	Gorle Nandini	Y		Y	Y	Y
49	18NM1A0550	Gudaparthi Dharani	Y	Y	Y	Y	Y
50	18NM1A0551	Harshita	Y		Y	Y	Y
51	18NM1A0552	Jagana Vasantha		Y	Y	Y	Y
52	18NM1A0553	Jagu Jyothika	Y	Y	Y	Y	Y
53	18NM1A0554	Jami Bhavana	Y	Y	Y	Y	Y
54	18NM1A0555	Juttuka Naga Gayathri		Y	Y	Y	Y
55	18NM1A0556	Kaki Dakshayani	Y	Y	Y	Y	Y
56	18NM1A0557	Kallepalli Lavanya	Y		Y	Y	Y
57	18NM1A0558	Kamma Reshmachowdary	Y	Y	Y	Y	Y
58	18NM1A0559	Kanchuboina Yamini	Y	Y	Y	Y	Y
59	18NM1A0560	Kandalam Hemasree	Y	Y	Y	Y	Y

Table B.2.2.1.f (e): Students Feedback about the Activity

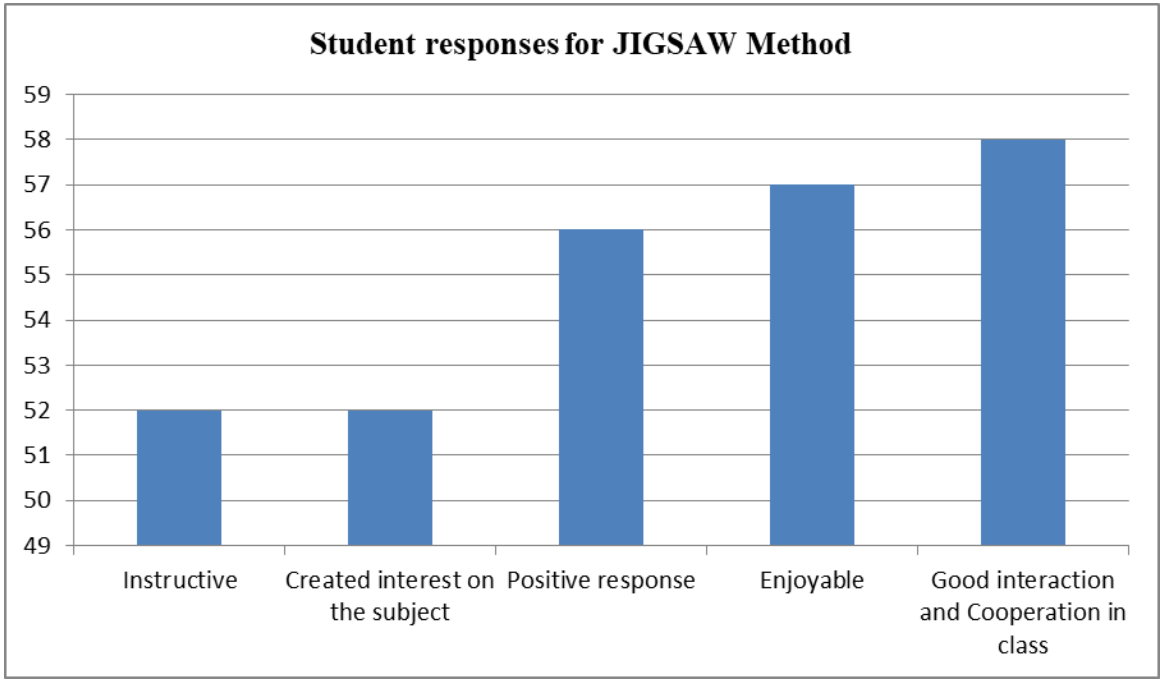


Figure B.2.2.1.l: Student responses for JIGSAW method

Team No	JIGSAW Team	Home Group Member ID	Formative Assessment		Summative Assessment		Final Score (50M)	Median :45
			Individual Observation (10M)	Group Observation (10M)	Individual Quiz (15M)	Group Quiz (15M)		Performed More than Median Score (Yes/No)
1	A.P.J Abdul Kalam (A)	A1- Leader	10	10	14	13	47	NO
		A2	8		14		44	NO
		A3	9		13		45	NO
		A4	8		15		46	NO
		A5	10		12		45	NO
2	Chandrasekhara Venkata Raman (B)	B1-Leader	10	10	15	15	50	NO
		B2	9		12		46	YES
		B3	8		13		46	YES
		B4	7		14		46	YES
		B5	6		13		44	YES
3	Srinivasa Ramanujan (C)	C1-Leader	9	8	15	14	46	NO
		C2	7		12		41	YES
		C3	9		14		45	NO
		C4	10		13		45	NO
		C5	8		15		45	NO
4	Satyendra Nath Bose (E)	D1	10	10	15	13	48	NO
		D2	9		14		46	NO
		D3	8		15		46	NO
		D4	10		14		47	NO
		D5	10		15		48	NO
5	Satyendra Nath Bose (F)	E1-Leader	10	10	15	12	47	NO
		E2	8		14		44	YES
		E3	9		13		44	YES
		E4	9		12		43	YES
		E5	8		14		44	YES
6	M. S. Swaminathan (G)	F1-Leader	9	9	15	15	48	NO
		F2	8		14		46	NO
		F3	7		13		44	YES
		F4	9		15		48	NO
		F5	10		12		46	NO

7	Raj Reddy (H)	G1-Leader	10	8	14	14	46	NO
		G2	9		13		44	YES
		G3	7		12		41	YES
		G4	8		13		43	YES
		G5	9		15		46	NO
8	Har Gobind Khorana (K)	H1-Leader	10	8	14	13	45	NO
		H2	8		15		44	YES
		H3	9		13		43	YES
		H4	7		14		42	YES
		H5	6		12		39	YES
9	K. S. Chandrasekharan (I)	I1-Leader	8	10	14	12	44	YES
		I2	9		15		46	NO
		I3	10		13		45	NO
		I4	9		12		43	YES
		I5	8		11		41	YES
10	Archimedes (J)	J1-Leader	8	10	12	15	45	NO
		J2	9		15		49	NO
		J3	10		14		49	NO
		J4	9		13		47	NO
		J5	7		14		46	NO
11	Rutherford (K)	K1-Leader	9	8	12	14	43	YES
		K2	8		15		45	NO
		K3	10		13		45	NO
		K4	9		14		45	NO
		K5	6		13		41	YES
12	James Maxwell (L)	L1-Leader	10	9	12	14	45	NO
		L2	8		13		44	YES
		L3	9		14		46	NO
		L4	7		15		45	NO
		L5	6		14		43	YES

Table B.2.2.1.f (f): Assessment sheet for JIGSAW activity

Activity Outcomes to PO Mapping:

Activity Outcomes	Mapping to POs
Outline of Von Neumann architecture.	PO1, PO2, PO3, PO4, PO5, PO11 and PO12
Differentiate the Von Neumann architecture and Harvard architecture.	PO1, PO2, PO3, PO4, PO5, PO11 and PO12
Illustrate the process of Assembler Languages - low-level programming language, specific to a particular computer architecture, assembler.	PO1, PO2, PO3, PO4, PO5, PO11 and PO12

Post Implications:

1. Engage in learning with that each student can express her or his ideas.

2. As students work as a team, they receive more support from their teammates, therefore gains confidence.

Sl. No	Name of the faculty	Year/ Sem	Course	Topic	No. of Students Participated	Relevance to POs& PSOs
1	Dr. K.Vijaya Kumar	IV-I	Cloud Computing	Types of Virtualizations	60	PO1-PO5 PSO1, PSO2
2	Dr. P. Vijaya Bharati	IV-II	Concurrent and Parallel Programming	C++AMP	61	PO1-PO5 PSO1, PSO2
3	Mrs. M. Mamatha Laxmi	II-II	Software Engineering	Agile Development Model	62	PO1-PO5 PSO1, PSO2
4	Mr. I. Raju	IV-I	Big Data Analytics	Commands in Pig	61	PO1-PO5 PSO1, PSO2
5	Mr. R. Ravi	III-I	SADP	Architectural Styles	61	PO1-PO5 PSO1, PSO2
6	Ms. B. Haritha Lakshmi	II-II	Java Programming	Buzz Words	60	PO1-PO5 PSO1, PSO2

Table B.2.2.1.g: Faculty implementing JIGSAW activity

7. Seminar method

Through Seminars students are encouraged to innovate and come up with new ideas exploring new technologies. There are also, few topics chosen in few Courses and given as seminars which encourage them for self-learning. And also, there is a course seminar in II-I and III-I for R13 regulation and in IV-II in R16 regulation. Each student chooses a separate seminar topic which is mandatory for evaluation in the course. Student seminars are attended by the faculty for giving a critical assessment.

Figure B.2.2.1.m: Student presenting a Seminar

Figure B.2.2.1.n: Student raising a question on the discussed topic

Sl. No	Regd. No.	Year/Sem	Course Name	Title of the Seminar Topic	Relevance to POs& PSOs
1	16NM1A0501	IV/II	Concurrent and Parallel Programming	OpenMP	PO1-PO5, PO10, PO12 PSO1
2	16NM1A0522	IV/II	Concurrent and Parallel Programming	OpenCL	PO1-PO5, PO10, PO12 PSO1
3	16NM1A0533	IV/II	Concurrent and Parallel Programming	Cilk++	PO1-PO5, PO10, PO12 PSO1
4	16NM1A0535	IV/II	Concurrent and Parallel Programming	Intel TBB	PO1-PO5, PO10, PO12 PSO1
5	16NM1A0544	IV/II	Concurrent and Parallel Programming	CUDA	PO1-PO5, PO10, PO12 PSO1
6	16NM1A0566	IV/II	Concurrent and Parallel Programming	C++ AMP	PO1-PO5, PO10, PO12 PSO1
7	16NM1A0578	IV/II	Concurrent and Parallel Programming	Cilk++	PO1-PO5, PO10, PO12 PSO1
8	16NM1A0588	IV/II	Concurrent and Parallel Programming	OpenCL	PO1-PO5, PO10, PO12 PSO1
9	16NM1A0592	IV/II	Concurrent and Parallel Programming	Intel TBB	PO1-PO5, PO10, PO12 PSO1
10	16NM1A0599	IV/II	Concurrent and Parallel Programming	CUDA	PO1-PO5, PO10, PO12 PSO1

Table B.2.2.1.h: Student Seminar Topics for Course CPP

Impact Analysis:

- Increase in problem-solving skills of the student by participation.
- Promote self-learning and independent thinking.
- Improve the communication skills.
- Develop the scope for active participation

Outcomes:

- Seminars made the students innovative, interactive, and motivated to study and analyze their topic in detail.

8. Activity Learning: Think Pair Share, Think Aloud Pair Problem Solving, In-class Teams

Active learning is anything course-related that all students in a class session are required to do, other than simply watching, listening and taking notes. It shifts focus from what the instructor should deliver to what the students should be able to do and motivates students to be prepared for class, having assimilated material and being ready to use it.

Activity: Think-Pair-Share

Think-pair-share (TPS) is a combined knowledge scheme where a teacher initiates a problem and students' pair with each other to solve it and share their insights to the class.

Process:

This scheme uses three steps for active learning in class.

1. The teacher presents a problem, or a question and students think individually.
2. A student is paired with another student, or a small group and they interact with each other and engage in solving the problem.
3. The teacher asks the students to share their thoughts about the solution to the problem.

Implementation Scenario of TPS activity:

Students were given a problem in java programming.

Learning outcome*:* Student should be able to write the program in java for a given task.

Problem statement: Recall the string methods to apply on sorting names and search for a given name using binary search.

Think: Individually write pseudo-code for sorting and searching.

Share: Teacher collects the solutions from the students and summarizes one solution for the given problem.

Figure B. 2.2.1.o: Think Pair Share Implementation

Outcomes:

- Increase the degree of student participation in the class.
- Encourage students to share their thoughts with at least one other student and allow them to involve more in classroom activities.
- Interaction of students in pairs and answer to each other accordingly.
- Involve students actively in the class.
- Develop in-depth knowledge of the topic.
- Develop communication skills among the students.
- Help students to ask questions which they normally do not ask individually.

Impact Analysis:

- Improves individual thinking
- Enhances communication skills
- Improves leadership qualities

C. Methodologies to support weak students and encourage bright students

Guidelines to identify weak and bright students

The bright students are identified from their participation in classroom discussion, performance in the assessment tests and participation in classroom seminars, questioning ability and University result analysis. The Counsellors regularly conduct meetings regarding the progress of their mentees and are responsible to identify students who scored less than 60% marks in their internals. Under the HOD direction, the students Counsellors evaluates the progress of the students who score below 60% marks in three or more subjects in MID examinations are

considered as weak students and the same is also intimated to their parents. The department of CSE conducts remedial classes along with these weak students also supports the students with backlogs by conducting remedial classes during semester break. The faculty helps the students by teaching the essential concepts, giving assignments, and conducting tests to improve the student.

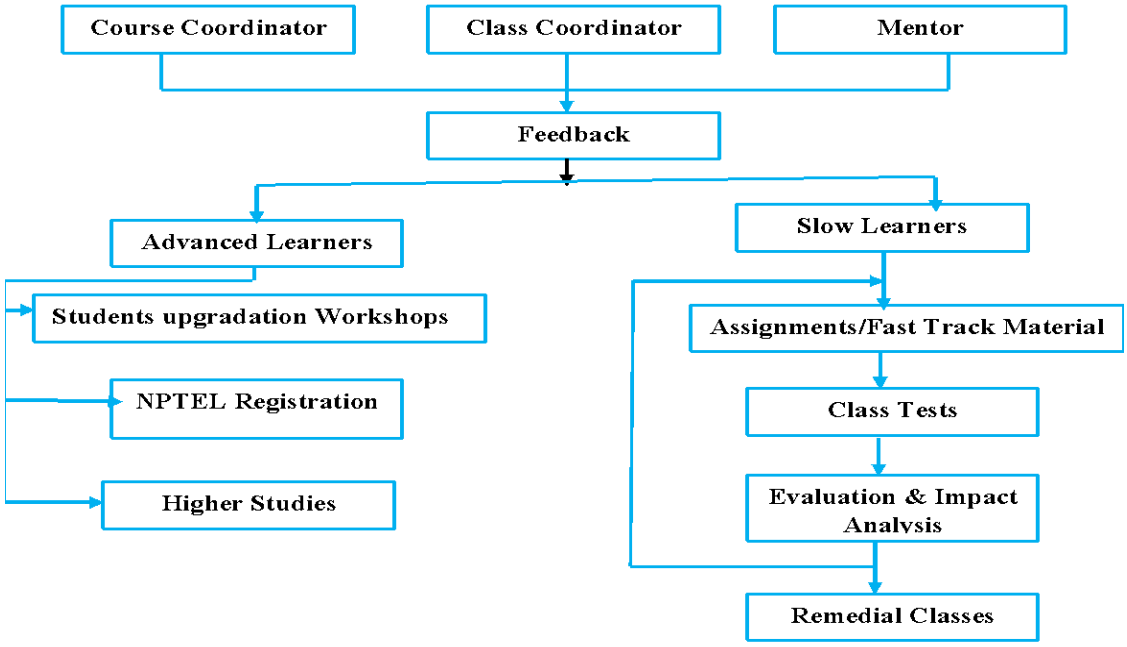


Figure B.2.2.1.p: Process to identify slow &bright students

Methodologies to support weak students

- The Faculty Counsellor identifies the slow learners after every mid-exam and external exam. The department appoints one faculty for every 20 students entering from the second year onwards.
- This faculty counsellor establishes a close relationship with each student and orients them to college practices, monitors their daily progress regularly (e.g., with at least fortnightly/monthly meetings) and guides them throughout the four-year course.
- The Faculty Counsellor gives academic as well as personal advice. Sometimes, she may not necessarily be able to address all problems – but faculty plays a role in guiding the student, putting the student in touch with the appropriate assistance, and so on.

- The faculty counsellor counsels and advises the slow learners to enhance their academic performance.
- Remedial classes will be conducted for slow learners
- Separate Assignments are given to slow learners and extra classes are conducted by faculty.
- Separate materials are provided to slow learners.
- Institute supports for socio-economic problems.

Identification Criteria	**Actions taken**
Students scoring less than 60% of marks in Internal Assessment.	• Student counsellor follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help. • Conduction of remedial classes • Providing separate fast track material
Diploma students who entered from other branches and late joining	• Conduction of remedial classes and extra classes
Students who fail in semester exams	• Allotting separate faculty for each subject • Conduction of extra classes to those who failed in previous semester subjects.

The remedial class timetable is prepared, and the faculties are instructed to take the classes. Monitoring of the student regularity is done by the faculty in-charge. A sample remedial class for Software Architecture and Design Patterns is below:

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
REMEDIAL CLASS FOR WEAK STUDENTS
Considering MID 1, MID 2 Marks and Number of Backlogs

Course Name: **Software Architecture & Design Patterns**	Course Code:**C402**
Year/ Sem: **IV BTECH I SEM**	Regulation: **R16**
Admitted Batch: **2017**	Academic Year:**2020-21**
Course Coordinator : **Mr. R. Ravi**	
Course handled: Section A- **Mr. R. Ravi**	
Course handled: Section B - **Mr.A.Srinivas**	
Course handled: Section C - **Mr. R. Ravi**	

Students identified for Remedial classes based on the number of Active Backlogs greater than 2 subjects

Class Date		12/11/2020	20/11/2020	3/12/2020	11/12/2020	24/12/2020	8/01/21
Class Time		3:30-4:30	3:30-4:40	3:30-4:40	3:30-4:40	3:30-4:40	3:30-4:40
S.No.	Regd. No.						
1.	17NM1A0506	Anjali	Anjali	AB	Anjali	Anjali	Anjali
2.	17NM1A0527	AB	Ram Vinodh	Vironchitha	Vironchitha	Vironchitha	Vironchitha
3.	17NM1A0536	D. Ankitha	Ankitha	Ankitha	Ankitha	Ankitha	AB
4.	17NM1A0560	Sowmya	Sowmya	Sowmya	AB	Sowmya	Sowmya
5.	17NM1A0566	K.Lavanya	K.Lavanya	K.Lavanya	K.Lavanya	K.Lavanya	K.Lavanya
6.	17NM1A0570	K.Supriya	K.Supriya	K.Supriya	K.Supriya	AB	K.Supriya
7.	17NM1A0574	AB	K.Thanuja	K.Thanuja	K.Thanuja	K.Thanuja	K.Thanuja
8.	17NM1A0577	K.Bhagya	K.Bhagya	AB	K.Bhagya	K.Bhagya	K.Bhagya
9.	17NM1A0583	K.Satya	K.satya	K.satya	K.satya	K.satya	K.satya
10.	17NM1A0585	K.charisma	K.charisma	K.charisma	K.charisma	AB	K.charisma
11.	17NM1A0587	K.Basheera	K.Basheera	K.Basheera	K.Basheera	K.Basheera	K.Basheera
12.	17NM1A05A5	M.Shailaja	AB	M.Shailaja	M.Shailaja	M.Shailaja	M.Shailaja
13.	17NM1A05A6	M.Rajyalakshmi	M.Rajyalakshmi	M.Rajyalakshmi	M.Rajyalakshmi	M.Rajyalakshmi	AB
14.	17NM1A05B0	N.Ramadevi	N.Ramadevi	N.Ramadevi	N.Ramadevi	N.Ramadevi	AB
15.	17NM1A05B1	N.Saisravani	N.Saisravani	N.Saisravani	AB	N.Saisravani	N.Saisravani

Figure B.2.2.1.q: Remedial classes for Software Architecture and Design Patterns

Impact Analysis:

- Improvement in academic performance of students.
- Active participation of the students in various programs.

Methodologies to encourage Bright students

- Institute encourages bright students to participate in the National Level Technical Competitions organized by other Institutes and Universities.
- Merit students are motivated to do NPTEL Courses and management encourages them with cash awards.

- Students are encouraged to publish their scientific articles in the department level/college level newsletter and Institute organizes events such as Technical Paper presentations, Student Symposium, Seminar, Project Exhibitions, Software development competitions and Problem-solving competitions to develop and promote creativity and critical thinking among the students.
- Students are involved in organizing Workshops, Seminars, Student Technical fest (Yuvatarang and Techfest) and FDPs so that they get awareness about the importance of such activities in the college.
- College students are involved in campus recruitment drives, Independence Day celebrations extra and anchoring in technical fests.
- The department insists and encourages students to bring out Technical Articles / Papers at the end of the final year project so that they are exposed to Technical Paper writing skills, peer reviews, plagiarism, and research ethics.
- The students have actively participated in Unnat Bharath Abhiyan (UBA) and NSS Activities.
- Extra times in labs are given to advanced learners so that they can access a maximum number of journals.
- Advanced learners are encouraged to involve in faculty projects.
- They are allocated as mentors for slow learners.
- Students are paid with incentives and stipend.

Identification Criteria	**Actions taken**
Students awarded with First Class and with Distinction in their semester exams	● Motivated to take up mini projects or be involved in faculty projects. ● Encouraged to participate in inter-college national level fests. ● Motivated to take GATE, GRE and TOEFL exams to pursue higher studies. ● Encouraged to do NPTEL courses, etc. ● The management awarded cash prizes for students who completed NPTEL courses like Machine Learning, IoT, Cloud Computing, Big data and Artificial Intelligence. ● Additional lab programs were given to improve their problem-solving skills. ● Conducting seminars on advanced electronic tools

	required for industry ● Allotment of extra library books ● Permitted to access journals in the library for research purpose ● Permitted to spend extra time in the project Lab
Top one student of each class for every academic year	Awarded with mementos and cash prizes to continue their Excellency in academics
Students securing ranks at university level	Distribution of Gold medals

A. Y	Year	Rank in college	Branch	Regd. No.	Name of the Student	%	Cash Prize in Rs.
2018-19	I B.Tech.	1	CSE	18NM1A0519	Ms. B. Kusuma Sandhya Rani	9.56	8000
	II B.Tech.	1	CSE	17NM1A0504	Ms. A.Manasa	8.64	9000
	III B.Tech.	1	CSE	16NM1A05C0	Ms. V.Pratyusha	8.79	10000
	IV B.Tech.	1	CSE	15NM1A0559	Ms. K. Madhavi	85.07	10000
2017-18	I B.Tech.	1	CSE	17NM1A0582	Ms. K. Lalitha	84.58	7500
	II B.Tech.	1	CSE	16NM1A0569	Ms. M. Sindhu	84.32	10000
	III B.Tech.	1	CSE	15NM1A0559	Ms. K. Madhavi	84.00	9000
	IV B.Tech.	1	CSE	15NM5A0503	Ms. C. Mounika	85.93	10000
2016-17	I B.Tech.	1	CSE	16NM1A0569	Ms. M. Sindhu	96.3	10,000
	II B.Tech.	2	CSE	15NM1A0559	Ms. K. Madhavi	89.87	7,500
	III B.Tech.	2	CSE	14NM1A0556	Ms. K. Revathi	85.39	7,500
	IV B.Tech.	2	CSE	13NM1A0564	Ms. K. Jhansi	83.69	7,500

Table B.2.2.1.i: Details of Merit Students with Cash Prizes

Microsoft WISE Program: This is an idea originated from a group of women engineers working at Microsoft India who wanted to help women engineering students shape out successful careers in technology. The students who were selected for this internship program are listed below and they are also selected with high packages and details furnished below in Table: B.2.2.1.j.

Sl. No.	Reg. No.	Student Name	Company Selected	Package
1	16NM1A0512	Ms. B. Niharika	Amazon	19 Lakhs
2	15NM1A0559	Ms. B. Madhavi	Amazon	18 Lakhs
3	14NM5A0510	Ms. P. Mounica	Juspay	12 Lakhs
4	13NM1A0521	Ms. B. Jagruti	Microsoft	10 Lakhs
5	13NM1A0516	Ms. B. Priya Bhargavi	Microsoft	10 Lakhs

Table B.2.2.1.j: Details of few merit students selected for Microsoft WISE Program and got placements with high packages

Figure B.2.2.1.r: Students at Microsoft – Hyderabad

The Table.B.2.2.1.k gives the details of merit students participated in various certification and NPTEL courses.

Sl.No.	Name of the Course	No. of Students Participated	Dates of Participation	Relevance to POs and PSOs
1.	Machine Learning	01	Feb21-Apr21	PO5, PO6, PO9, PO12
2.	Database Management Systems	10	Jan21 - Mar21	PO5, PO6, PO9, PO12
3.	The Joy of Computing using Python	01	Jan21 - Mar21	PO5, PO6, PO9, PO12
4.	Python for Data Science	17	Jan21 - Feb21	PO5, PO6, PO9, PO12

5.	Problem Solving Through Programming In C	01	Sep20 - Dec20	PO5, PO6, PO9, PO12
6.	Programming In Java	07	Sep20 - Dec20	PO5, PO6, PO9, PO12
7.	Big Data Computing	01	Sep20 - Nov20	PO5, PO6, PO9, PO12
8.	Programming, Data Structures And Algorithms Using Python	05	Sep20 - Nov20	PO5, PO6, PO9, PO12
9.	Practical Machine Learning with Sensor flow	01	Aug20 – Oct20	PO5, PO6, PO9, PO12
10.	Introduction to Artificial Intelligence (NPTEL)	02	Jan20–Apr20	PO5, PO6, PO9, PO12
11.	Cryptography and Network Security	05	Jan20 – Apr20	PO5, PO6, PO9, PO12
12.	Problem Solving Through Programming In C	02	Jan20 – Apr20	PO5, PO6, PO9, PO12
13.	Programming in Java	06	Jan20 – Apr20	PO5, PO6, PO9, PO12
14.	Machine Learning	01	Jan20 - Apr20	PO5, PO6, PO9, PO12
15.	Computer Networks and Internet Protocol	01	Jan20 – Apr20	PO5, PO6, PO9, PO12
16.	Introduction to Machine Learning	01	Jan20 – Apr20	PO5, PO6, PO9, PO12
17.	Data Structures and algorithms using python	06	Jan20 – Mar20	PO5, PO6, PO9, PO12
18.	Python for Data Science	01	Jan20 – Feb20	PO5, PO6, PO9, PO12
19.	Big Data Computing	06	Sep19 – Nov19	PO5, PO6, PO9, PO12
20.	Operating System Fundamentals	01	Jul19 – Oct19	PO5, PO6, PO9, PO12
21.	Database Management System	28	Jul19 – Sep19	PO5, PO6, PO9, PO12
22.	Programming In Java	14	Jan19 – Apr19	PO5, PO6, PO9, PO12
23.	Cryptography And Network Security	07	Jan19 – Apr19	PO5, PO6, PO9, PO12
24.	Big Data Computing	05	Sep18 – Nov18	PO5, PO6, PO9, PO12
25.	Discrete Mathematics	01	Jul18 – Oct18	PO5, PO6, PO9, PO12
26.	Fundamentals Of Artificial Intelligence	04	Jul18 – Oct18	PO5, PO6, PO9, PO12
27.	Problem Solving Through Programming In C	05	Jul18 – Oct18	PO5, PO6, PO9, PO12
28.	Operating System Fundamentals	06	Jul18 – Oct18	PO5, PO6, PO9, PO12
29.	Database Management Systems	05	Jul18 – Sep18	PO5, PO6, PO9, PO12

30.	Problem Solving Through Programming In C	08	Jan18 – Apr18	PO5, PO6, PO9, PO12
31.	Big Data Computing	04	Sep17 – Nov17	PO5, PO6, PO9, PO12
32.	Database Management Systems	04	Jul17 – Sep17	PO5, PO6, PO9, PO12
33.	Fundamentals Of Artificial Intelligence	06	Jul17 – Oct17	PO5, PO6, PO9, PO12
34.	Introduction to Programming In C	06	Jul17 – Sep17	PO5, PO6, PO9, PO12
35.	Programming, Data Structures and Algorithms Using Python	02	Jul17 – Sep17	PO5, PO6, PO9, PO12

Table B.2.2.1.k: Details of Students participation in NPTEL Certification Courses


This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, https://nptel.ac.in/noc/

Roll No: NPTEL21CS21S22530267

To
AMRUTHA P
38-19-122, JYOTHINAGAR
MARRIPALEM, VISAKHAPATANAM
VISAKHAPATANAM
ANDHRA PRADESH - 530018
PH. NO :9490460056

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

AMRUTHA P

for successfully completing the course

Programming, Data Structures And Algorithms Using Python

with a consolidated score of 81 %

Online Assignments	21.88/25	Programming Exam	25/25	Proctored Exam	33.75/50

Total number of candidates certified in this course: 992

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Mar 2021
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No:NPTEL21CS21S22530267

To validate and check scores: https://nptel.ac.in/noc

Figure B.2.2.1.s: Sample NPTEL Certificate for Programming, Data Structures and Algorithm Using Python

Academic Year	Certification Courses				
	NPTEL	UDEMY	CISCO	COURSERA	OTHERS
2020-21	43	40	8	55	66
2019-20	61	28	-	21	26
2018-19	47	4	218	2	28
2017-18	30	-	-	-	5

Table B.2.2.1.l: Consolidated List of Students Certification Courses completed

D. Quality of classroom teaching (3)

Vignan's Institute of Engineering for Women is very particular in maintaining quality of teaching in the classroom. Every faculty in our institute is trained to deliver the content in the classroom by adopting following procedures.

Step 1: Create an outline:

- What is the main goal for the lecture?
- Create 3-5 objectives for the lecture: These will describe how the teacher help the learner reach the goal
- Create an outline for the key concepts required to understand these objectives
- Create a timeline for the session

Step 2: Create a timeline:

As per our time table every class session is for 50 minutes.

Time	Activity
5 mins	Revision of previous class content
5 mins	Formative Assessment (2-3 questions on previous class)
15 mins	Deliver of new content / slides
5 mins	Interactive questions
15 mins	Continuation of the content / slides
5 mins	Review / Questions / Summary of the sessions
50 mins	**End promptly**

Step 3: Slides preparation:

- ✔ For a 50 minutes lecture, plan no more than 20 slides
- ✔ PPT will contain the following slides
  - Provide an outline slide
  - Use short phrases
  - More graphics, less text
  - Move tables and dense text to a separate handout

Step 4: Be confident

- ✔ Talk to the students, not to the slides / blackboard
- ✔ Make eye contact with the students in different parts of the classroom
- ✔ Talk clearly, not too fast, not too slow
- ✔ Use humour judiciously. Keep it professional.

Step 5: Provide links for web content

The activities/elements adopted in the department to maintain quality in classroom teaching are shown in Figure B.2.2.1.t.

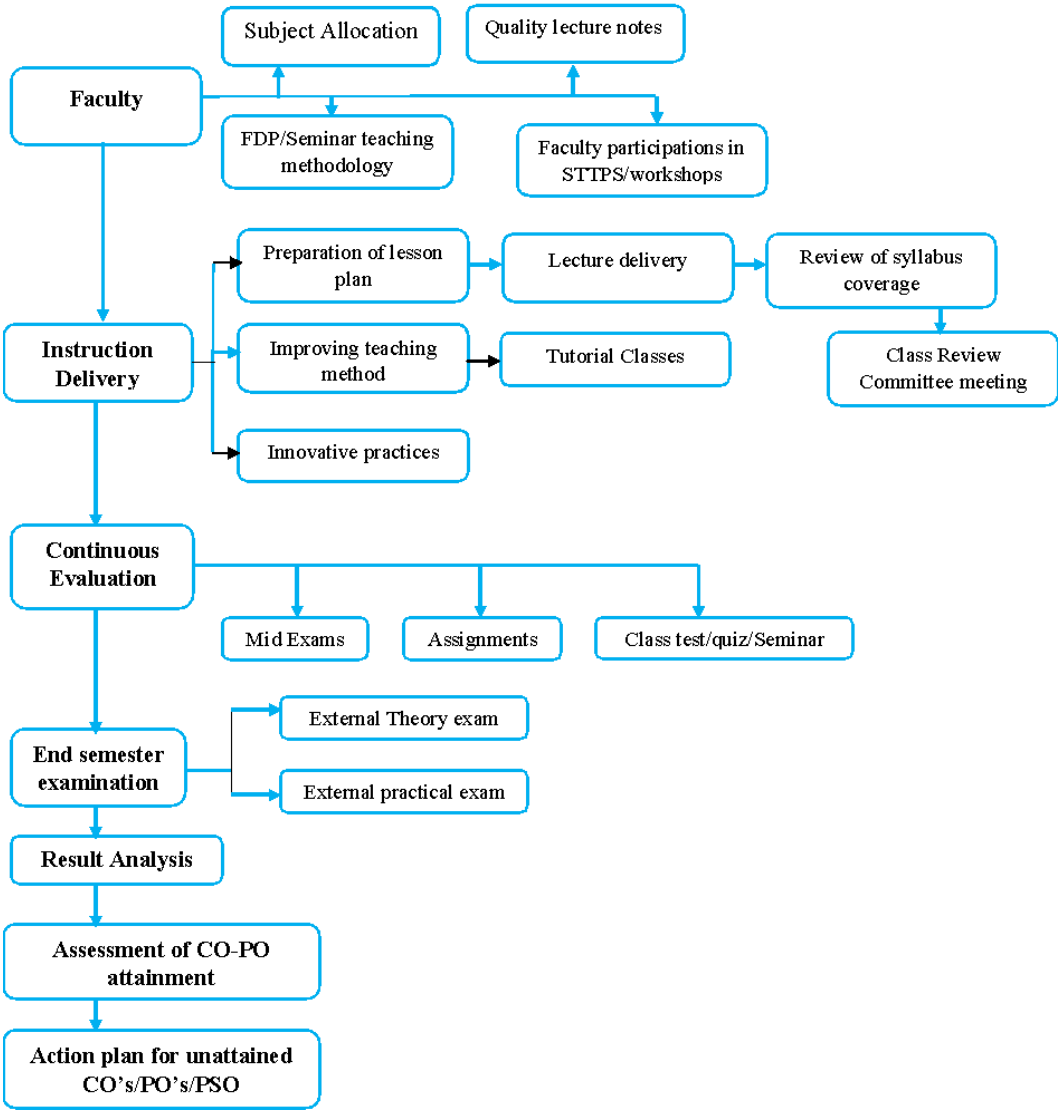


Figure B.2.2.1.t: Elements of Quality classroom teaching

1) Quality Lecture Notes

Faculty members prepare/update lecture notes for allotted subjects by referring to various prescribed textbooks, Question banks of previous examinations, relevant NPTEL courses and other e-resources from Google and also by participating in various workshops / FDPs / STTPs organized within and outside the VIEW campus in India to enhance the practical knowledge. The quality of the prepared materials are been internally verified by the senior professors in the department or by the faculty who have taught the same subject in the previous years. The course coordinator for the allotted course maintains a course file after the semester that includes the

following:

- Department Mission, Vision
- Program outcomes
- Course syllabus
- Course outcomes
- CO-PO Mapping
- University Academic Calendar
- Department Academic Calendar
- Course Delivery plan/Lesson Plan
- Course Timetable
- Lecture Notes
- Question Bank (unit wise)
- Multiple Choice Questions
- Tutorial Topics/Problems
- Topics beyond Syllabus
- PPT's/Videos/Other materials
- Internal question papers & scheme
- Assignment Questions
- University old question Papers
- Gap Analysis
- Remedial Classes to weak students
- Result Analysis & Course attainments

2) FDP/Seminar in Teaching methodology

Faculty Development programs in teaching methodology is organized in June / July every year in VIEW for faculty members having < 2 years' experience. HOD also conducts a seminar on guidelines for effective teaching to all faculty members at the Department level. The newly recruited faculty in the department are also training on writing the COs for the course, CO-PO mapping. Orientation classes are organized for the newly recruited faculty under the guidance of principal with HoD and senior faculty in the department for continuous improvement in teaching learning process.

3) Lesson/ Lecture Plan

It is a regular practice in our institution to prepare Lesson Plan prior to the commencement of the class work to the courses handled by the individual faculty taking the guidance from the course coordinator. Lesson plans are prepared by faculty members, based on the Academic calendar, syllabus and weekly load, which is reviewed and approved by HOD and Principal. The lesson plan comprises of the entire plan for the course with dates adhering to the department, institute, and university calendars. The sample Lecture plan for IV-II for academic year 2019-20 is below.

Week	Day	DS	ML	CPP	MS	PROJECT WORK
1	18.11.19 to 23.11.19	**Unit-1** Introduction to Distributed Systems	**Unit 1** The ingredients of machine learning, Tasks	**Unit-1** Concurrent versus sequential programming	**Unit-1** Management functions, nature, importance	
2	25.11.19 to 30.11.19	Introduction to System models	Binary classification and related tasks:	Concurrent programming constructs	Types of Organization structure	
3	02.12.19 to 07.12.20	Fundamental Models	**Unit-2** Beyond binary classification	Race condition. Synchronization primitives	Modern Theories of organization	
4	09.12.19 to 14.12.19	**Unit-2** Introduction to Inter Process Communication	Unsupervised and Supervised, descriptive learning	**Unit-2** Processes and threads. Interprocess communication	**Unit-2** Operations Management, principles of organization	
5	16.12.19 to 21.12.19	The API for the Internet Protocols: TCP Stream Communication	Concept learning	Livelock and deadlocks, starvation, and deadlock prevention	X-chart, P charts and R charts	
6	23.12.19 to 24.12.19	Group Communication IP Multicast	Beyond conjunctive concepts	Issues and challenges in concurrent programming paradigm	ABC analysis, EOQ Analysis, SQC	
	28.12.19	Examples- Reliability and ordering	**Unit 3** Tree models, Ranking and probability estimation trees	current trends	**Unit 3** Functional Management, HR Functions	
7	30.12.19 to 04.01.20	**Unit-3** Distributed Objects and Remote Invocation	Rule models	**Unit-3** Parallel algorithms – sorting, ranking	Product Life Cycle, Channels of Distributions	
8	06.01.20 to 10.01.20	Remote Procedure Call, Events and Notifications, Case studies on RMI, RPC	Descriptive rule learning, First-order rule learning	searching, traversals, prefix sum etc	Marketing Management	
11	27.01.20 to 01.02.20	**Unit-4** Introduction – Distributed Operating system,Middlewa	**UNIT -4** The least-squares method, The perceptron: a heuristic	**Unit-4** Parallel programming paradigms – Data parallel, Task parallel	**Unit-4** Network Analysis, Activity, Events	

12	**03.02.20 to 08.02.20**	Processes and Threads & Threads in Distributed systems	Support vector machines, obtaining probabilities from linear classifiers	Shared memory and message passing	Critical Path Method, Problems	
13	**10.02.20 to 15.02.20**	**Unit-5 Introduction to Distributed File Systems**	Distance Based Models	Parallel Architectures, GPGPU	Project Evaluation and Review Technique	
14	**17.02.20 to 20.02.20**	Routing Overlays, Distributed Mutual Exclusion	Unit-5 Probabilistic Models	pthreads, STM	Project Crashing, Problems on Project Crashing	
	22.02.20	The bully algorithm	Features	**Unit-5** OpenMP	**Unit-5** Strategic Management	
15	**24.02.20 to 29.02.20**	Multicast Communication	Model ensembles: Bagging and random forests, Boosting	OpenCL, Cilk++	SWOT Analysis, Environmental scanning	
16	**02.03.20 to 07.03.20**	**Unit 6** Transactions & Replications, Distributed dead locks	**Unit 6** Dimensionality Reduction	Intel TBB, CUDA	Strategy Formulation	
17	**09.03.20 to 14.03.20**	Transaction recovery	Neural network representation	**Unit-6** Heterogeneous Computing: C++AMP,	**Unit-6** Contemporary Management, SCM, CMM,BPO	
18	**16.03.20 to 21.03.20**	Replication – Introduction	Multilayer networks and the back-propagation algorithm.	OpenCL	Six Sigma, ERP, MIS, TQM	

Figure B.2.2.1.u: Sample Lecture plan for IV-II for academic year 2019-20

4) Instruction Delivery

Faculty members take classes as per timetable and lesson plan, duly compensating for lost classes due to leaves or unexpected holidays following various teaching-learning techniques and aids that are suitable for a particular topic to be discussed in the class effectively. The entire faculty also adopts the ARCS (Attention, Relevance, Confidence and Satisfaction) model of instruction delivery. While delivering the lecture faculty draw the attention of students in the classroom by giving examples to related topics. The faculty explains the relevance of the topic to

students by bringing its future use in industry and R&D applications. To create confidence in the students, their future goals are prepared and displayed in their study room or hostel room. Great scientist's photos like Einstein, Faraday, etc., were asked to display in their study room. The goals are revised by the faculty frequently. To create satisfaction among students, outstanding performance students are appreciated through rewards in public, like displaying names in college notice boards, special appreciation from principal, fee wavering from management. Newly recruited faculties are trained on how to use the ICT tools for lecture delivery. Easy concepts are explained with PPTs, models using ICT tools. Difficult concepts that are practically oriented are explained in Labs. ICT based classrooms in the department help the faculty to implement OBE and students to improve their learning skills.

5) Continuous Evaluation

This consists of two mid exams for every semester both descriptive and objective conducted by the university with assignments for theory courses and weekly viva voce, Observation and Record evaluation and internal Lab exam for Laboratory courses. There are surprise tests conducted once in 3 to 4 days to understand the attention level of students.

6) Review of Syllabus Coverage

HoD reviews the coverage of the syllabus on a regular basis in faculty meetings. Student Review Committee (SRC) constitutes of HoD, two bright and two average students of the class along with class faculty and class coordinator. CRC meetings are organized before each mid examination to review the syllabus coverage of each course.

7) End Semester Exams

These are conducted as per the academic calendar provided by JNTUK. End semester practical exams are conducted with one internal examiner and one external examiner.

8) Results Analysis

Analysis of results for mid examination is carried out to take action for low pass percentage in any course to improve the result in the end examination. An Analysis is also done after the end examination results by the examination cell. They provide marks/grades of each student for every course. With respect to results, we are proud to convey that Vignan's Institute of Engineering for Women remains in the first five places of the JNTUK affiliated colleges from year it started even though the ranks of the students joining the college range from 10,000 to

60,000. This elevates the effectiveness of the teaching-learning process in the college.

9) Assessment of CO-PO Attainment

The procedure for assessment of CO-PO attainment has been evolved over a period of time in the department. CO attainment is calculated by the concerned subject faculty and PO attainment is done the concerned coordinator(s). Action plan for unattained POs/PSOs is drafted to implement in the next academic year.

Impact Analysis:

● Improved results of students every year placing the institute in the top 5 places among the university affiliated colleges implementing all these elements in the classroom.
● Upgradation of faculty themselves with the methodologies implemented in the department.

E. Conduct of experiments

Being a technical institute the labs in the college are equally important as the classroom to gain practical oriented engineering knowledge and for the development of skills. The Laboratory experiments are conducted through the following measures:

- Sufficient number of computers is available in the lab for conducting the lab session.
- All the computers provided are in good working condition.
- Programmers in the lab are technically competent and they are responsible to verify the readiness of the lab before conducting the lab session.
- Every student is provided with one computer on 1:1 ratio which ensures quality of the laboratory experience.
- Manuals are provided for all experiments in the laboratories before the commencement of the lab sessions.
- The concept of the program to be coded and executed in the lab is thoroughly explained in the classwork and lab.
- Same program is written and executed by all the students in a lab session.
- Faculty member monitors to see that every student is involved in writing the program, debugging the program and obtaining the correct outputs.
- Analysis and writing programs, executing, and obtaining the results is done by students individually. The obtained results are validated for all test cases.

- Simultaneously, faculty also monitors the attitude and behaviour of the students and the same is recorded at the end of the attendance register on any inappropriate actions.
- First year students who are using the computer for the first time are supported to operate on the system until they are trained well to use the system without anyone's help.
- There are few experiments included as content beyond the syllabus to meet the needs of the industry.
- Few experiments are conducted in groups to implement collaborative learning that facilitates the individual to work in a team.
- Viva-voce is conducted after each lab session.

F. Continuous assessment in the Laboratory (3)

For internal evaluation, total of 25 marks is sub-categorized to 10 marks for Write-up and evaluation, 10 marks for continuous assessment and 5 marks for record work. Rubrics are used for the assessment of students in each Lab session.

● **Rubric for day-to-day evaluation:**

The rubric for day-to-day evaluation is designed based on student technical skills, Laboratory skills, interpersonal skills and regularity. The rubric for a Lab session is designed to assess the student's:

● **Technical Skills:**

- Prior preparation of the student to do the current experiment.
- Programming knowledge of the student to interpret the results.
- Participation of students in performing the experiment.
- Evaluate the experiment using various methods and suggest possible improvements and further investigations.
-

● ***Interpersonal Skills:***

➢ Time management-Ability to complete the task in stipulated time.

➢ Communication skills- Able to explain the obtained results.

Assessment Sheet:

Name of the Lab:		Date:
Regd. No:		
Experiment No:		
ASSESSMENT	MAXIMUM MARKS	MARKS AWARDED
Coding Skill	5	
Execution of program	3	
Viva Questions	2	
Total	10	

Figure B.2.2.1.v: Day-to-day evaluation sheet for laboratory session

- **Coding Skill**: Student coding skills are tested/ graded for efficient programming
- **Execution**: Execution and validity of the current program with different test cases.
- **Viva-Voce:** Student understanding level of concepts and subject content is adequate while answering the questions.

Rubric sheet for day-to-day evaluation:

Name of the Lab		**Date**	
Name of the Student		**Regd. No.**	
Name of the experiment		**Max. Marks**	10 Marks

Metrics/ Attributes	**Allotted Marks**	**Excellent**	**Good**	**Average/Needs Improvement**	**Score**
Coding	**5 Marks**	Suffice knowledge on the basic concepts to write the code to the program.	Good knowledge to write the code to the program. Correlation to the theoretical concept is missing.	No prior to write the code to the program	
		4-5 M	2-3M	0-1M	
Execution	**3 Marks**	Executed the program with correct output.	Executed the program with incorrect output.	Executed the program with errors	
		3 M	2M	1M	
Viva	**2Marks**	Answered all the questions.	Answered few questions.	Did not answer any question.	
		2 M	1M	0M	
Total Score					

Faculty Incharge

Figure B.2.2.1.w: Rubric sheet for day-to-day evaluation

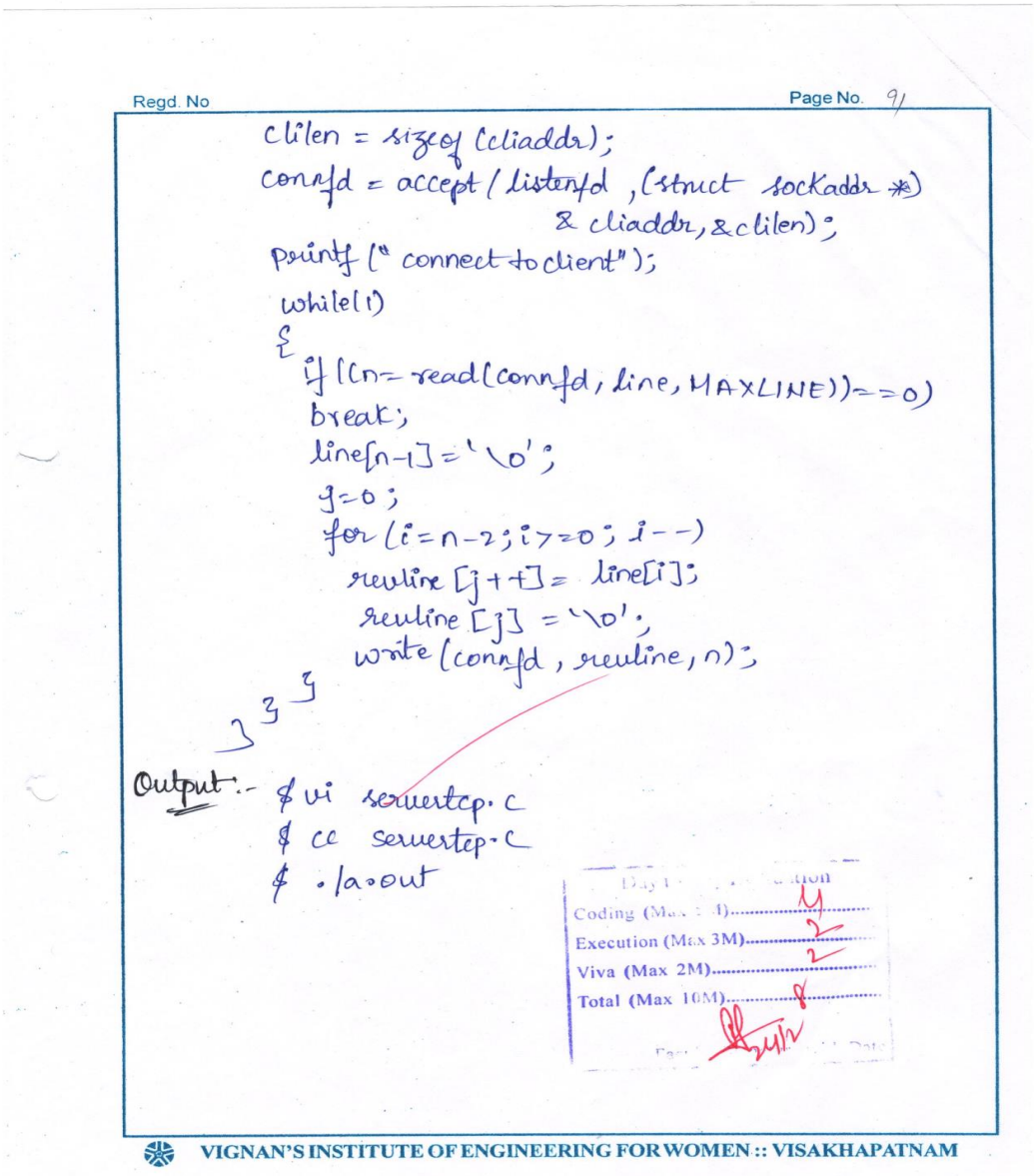


Figure B.2.2.1.x: Sample Record Photo for Network Programming Lab

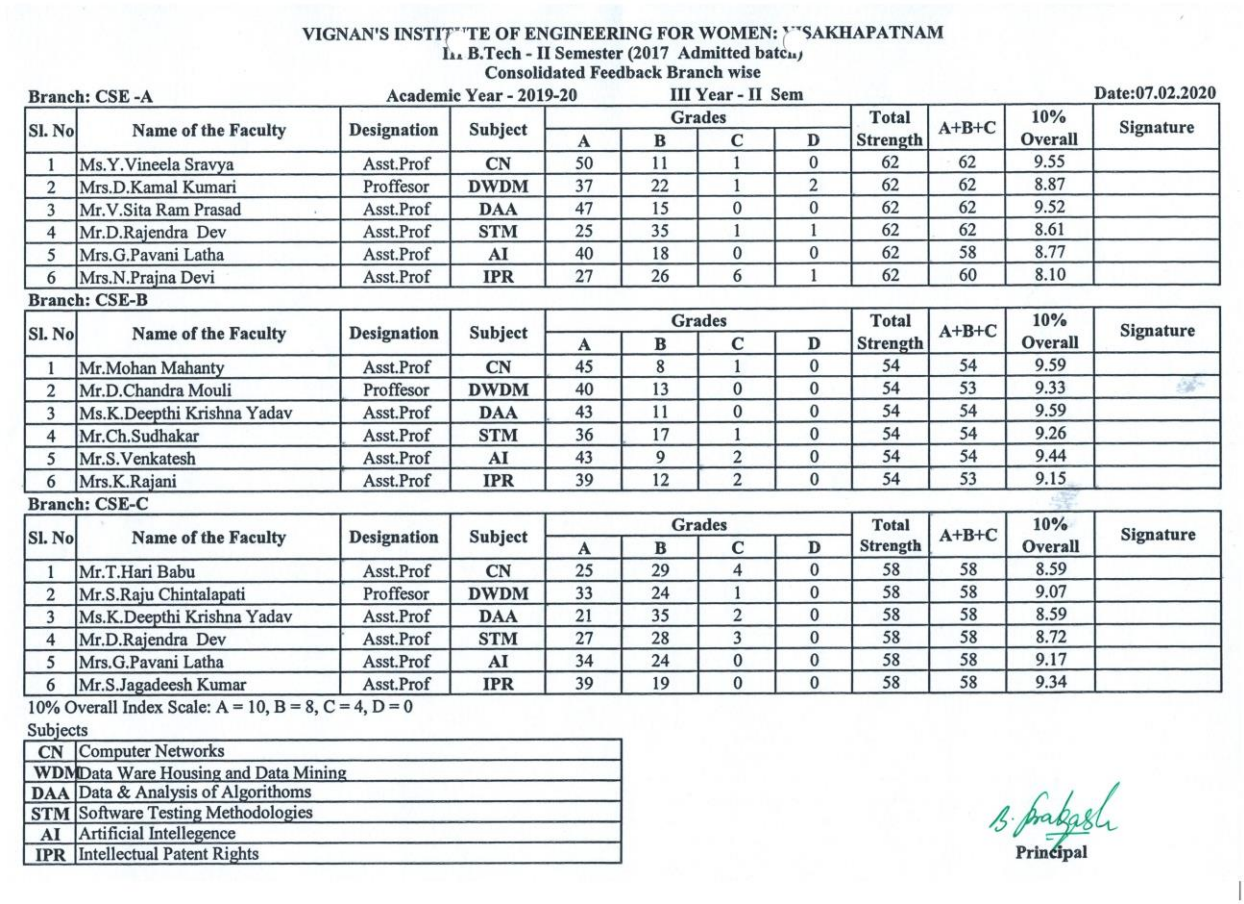
G. Student feedback on teaching-learning process and action taken (6)

Feedback is taken from students on the effectiveness of teaching and subject learning at different points of time during the semester. Initially, verbal feedback is taken from each class informally by HoD after 1-2 weeks of commencement of class work. Feedback is also taken during students counselling by all faculty members during the same period and communicated to the HoD. If students are facing difficulty in any subject, the concerned faculty member is informed of the same.

Besides the above, offline students' feedback is taken anonymously once every semester under Principal's guidance. The feedback is analysed and communicated to all faculty members with necessary remarks by the HoD and Principal. This feedback is considered part of Annual Performance Appraisal of the faculty member with a weightage of 25% in Teaching-Learning and Evaluation category. More than 90% of the faculties are given grades between 9 to 10 point scale which evidences for good quality in the teaching. A sample consolidated evaluation sheet is as follows in Figure: B.2.2.1.w and a Sample student feedback evaluation Sheet for each faculty in Figure: B.2.2.1.x.

Action Taken

- The faculty with less feedback is asked to give an orientation class before Principal, HoD and another senior subject faculty, giving guidelines for improvement.
- The lecture- notes is reviewed and necessary suggestions in the subject are offered.
- They are also suggested to refer more books and senior faculty materials.
- They are advised to rewrite the lecture material.
- After 2-3 weeks, feedback is again taken from students in the subject for necessary action.
- In extreme cases, where the faculty member is unable to improve to the minimum desired standard, the faculty member is changes and another faculty is allotted for the same subject. Faculties are also analyzed by the results produced for the courses they handled.



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN: VISAKHAPATNAM
I.I. B.Tech - II Semester (2017 Admitted batch)
Consolidated Feedback Branch wise

Branch: CSE -A | Academic Year - 2019-20 | III Year - II Sem | Date:07.02.2020

Sl. No	Name of the Faculty	Designation	Subject	Grades				Total Strength	A+B+C	10% Overall	Signature
				A	B	C	D				
1	Ms.Y.Vineela Sravya	Asst.Prof	CN	50	11	1	0	62	62	9.55	
2	Mrs.D.Kamal Kumari	Proffesor	DWDM	37	22	1	2	62	62	8.87	
3	Mr.V.Sita Ram Prasad	Asst.Prof	DAA	47	15	0	0	62	62	9.52	
4	Mr.D.Rajendra Dev	Asst.Prof	STM	25	35	1	1	62	62	8.61	
5	Mrs.G.Pavani Latha	Asst.Prof	AI	40	18	0	0	62	58	8.77	
6	Mrs.N.Prajna Devi	Asst.Prof	IPR	27	26	6	1	62	60	8.10	

Branch: CSE-B

Sl. No	Name of the Faculty	Designation	Subject	Grades				Total Strength	A+B+C	10% Overall	Signature
				A	B	C	D				
1	Mr.Mohan Mahanty	Asst.Prof	CN	45	8	1	0	54	54	9.59	
2	Mr.D.Chandra Mouli	Proffesor	DWDM	40	13	0	0	54	53	9.33	
3	Ms.K.Deepthi Krishna Yadav	Asst.Prof	DAA	43	11	0	0	54	54	9.59	
4	Mr.Ch.Sudhakar	Asst.Prof	STM	36	17	1	0	54	54	9.26	
5	Mr.S.Venkatesh	Asst.Prof	AI	43	9	2	0	54	54	9.44	
6	Mrs.K.Rajani	Asst.Prof	IPR	39	12	2	0	54	53	9.15	

Branch: CSE-C

Sl. No	Name of the Faculty	Designation	Subject	Grades				Total Strength	A+B+C	10% Overall	Signature
				A	B	C	D				
1	Mr.T.Hari Babu	Asst.Prof	CN	25	29	4	0	58	58	8.59	
2	Mr.S.Raju Chintalapati	Proffesor	DWDM	33	24	1	0	58	58	9.07	
3	Ms.K.Deepthi Krishna Yadav	Asst.Prof	DAA	21	35	2	0	58	58	8.59	
4	Mr.D.Rajendra Dev	Asst.Prof	STM	27	28	3	0	58	58	8.72	
5	Mrs.G.Pavani Latha	Asst.Prof	AI	34	24	0	0	58	58	9.17	
6	Mr.S.Jagadeesh Kumar	Asst.Prof	IPR	39	19	0	0	58	58	9.34	

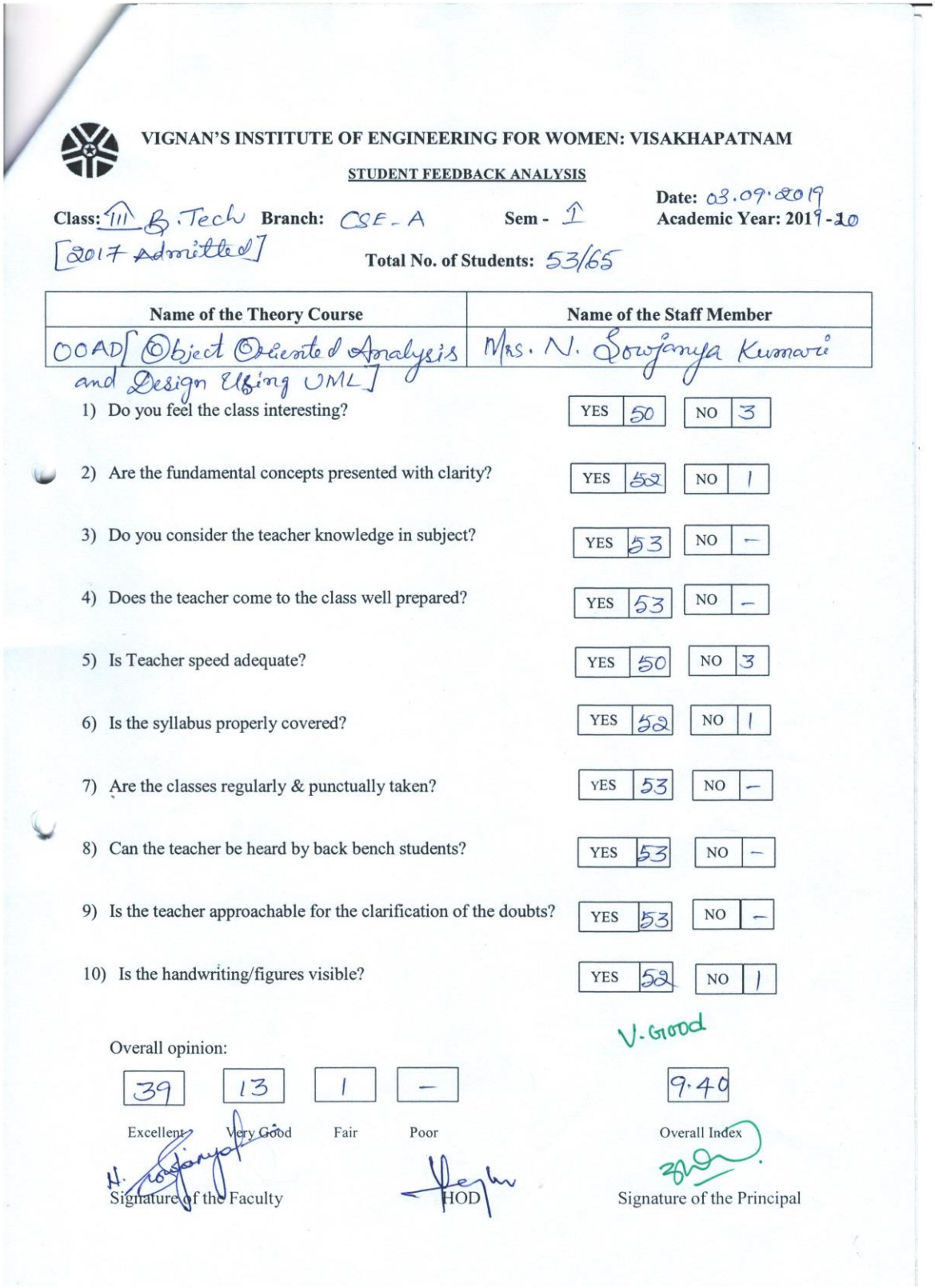
10% Overall Index Scale: A = 10, B = 8, C = 4, D = 0

Subjects

CN	Computer Networks
WDM	Data Ware Housing and Data Mining
DAA	Data & Analysis of Algorithoms
STM	Software Testing Methodologies
AI	Artificial Intellegence
IPR	Intellectual Patent Rights

Principal

Figure B.2.2.1.y: A Sample consolidated evaluation sheet



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN: VISAKHAPATNAM

STUDENT FEEDBACK ANALYSIS

Class: III B.Tech Branch: CSE-A Sem - I Date: 03.09.2019
[2017 Admitted] Academic Year: 2019-20

Total No. of Students: 53/65

Name of the Theory Course	Name of the Staff Member
OOAD [Object Oriented Analysis and Design Using UML]	Mrs. N. Sowjanya Kumari

1) Do you feel the class interesting?	YES	50	NO	3
2) Are the fundamental concepts presented with clarity?	YES	52	NO	1
3) Do you consider the teacher knowledge in subject?	YES	53	NO	–
4) Does the teacher come to the class well prepared?	YES	53	NO	–
5) Is Teacher speed adequate?	YES	50	NO	3
6) Is the syllabus properly covered?	YES	52	NO	1
7) Are the classes regularly & punctually taken?	YES	53	NO	–
8) Can the teacher be heard by back bench students?	YES	53	NO	–
9) Is the teacher approachable for the clarification of the doubts?	YES	53	NO	–
10) Is the handwriting/figures visible?	YES	52	NO	1

Overall opinion: V. Good

Excellent	Very Good	Fair	Poor	Overall Index
39	13	1	–	9.40

N. Sowjanya — Signature of the Faculty; HOD; Signature of the Principal

Figure B.2.2.1.z: Sample Student Feedback Evaluation Sheet for each Faculty

Impact Analysis:

- Improvement in presentation skills of the faculty lecture delivery after the orientation class/classes.
- Improvement in student feedback of the concerned faculty.
- Improvement in result of the concerned course.

The list of faculties who has given orientation class in the last three academic years is given below in Table B.2.2.1.m.

Sl. No.	Academic Year	Year/Section/ Semester	Course Name	Name of the Faculty	No. of times Orientation Conducted	Improvement in Feedback (on 10 point scale)
1.	2020-21	II CSE B - I	Python Programming	D. Ramya	1	7.9
2.	2020-21	IV CSE B- I	Web Technologies	Afsheen	1	7.2
3.	2020-21	II ECE A- I	Oops through C++	V. Sita Ram Prasad	1	7.5
4.	2019-20	III CSE A - I	Unix Programming	Mrs. M. Mamatha Laxmi	4	9.13
5.	2019-20	II CSE B - I	Digital Logic Design	Mr.T. Hari Babu	2	9.65
6.	2018-19	III CSE C - II	Software Testing Methodologies	Mrs. V. SreeLahari	2	9.17
7.	2017-18	III CSE A - I	Principles of Programming Language	Ms. D. Chandrika	3	7.2
8.	2017-18	III CSE B - II	Software Engineering	Mrs. M. Mamata Laxmi	3	6.69

Table B.2.2.1.m: Impact Analysis of Orientation Classes

2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

(Mention the initiatives, implementation details and analysis of learning levels related to quality of semester question papers, assignments and evaluation)

A. Process for internal semester question paper setting and evaluation and effective process implementation

- Question paper for internal examination (Mid exam) is set in the standard format by the subject faculty for approximately 50% of the total syllabus for each mid exam.
- Under JNTUK regulations, the pattern of mid exam question paper consists of 3 questions and the student must answer all the 3 Questions. Each question carries 5 marks. This descriptive exam is conducted for 15 marks.
- The department ensures that the faculty completes the syllabus required to conduct exam by taking the course completion survey report twice a semester.
- Two sets of question papers will be prepared by the faculty.
- The question paper contains questions from the syllabus with COs coverage and the level of difficulty as per the revised Bloom's Taxonomy action verbs. The scheme of evaluation will be prepared by the corresponding faculty.
- The quality of the question paper is evaluated by the members of IQAC and the report is submitted to the Principal and HoD for further action or for improvement if required.
- One set will be selected by the institutional head/ HoD one hour before the day of the exam.
- The faculty member prepares a scheme of valuation for the mid exam question paper and evaluates the answer scripts as per the scheme.
- The scheme of valuation and the valued answer scripts are shared with the students to maintain transparency and affix their signature on the answer script after scrutiny.
- The students are given a chance to ask doubts regarding the evaluation procedure or marks allotted. The doubts are clarified by the course coordinator and the assessment is done.
- Mid marks will be displayed on the notice boards for students.
- Academically poor students will be identified and remedial classes are organized to improve their learning ability through tests, assignments etc.

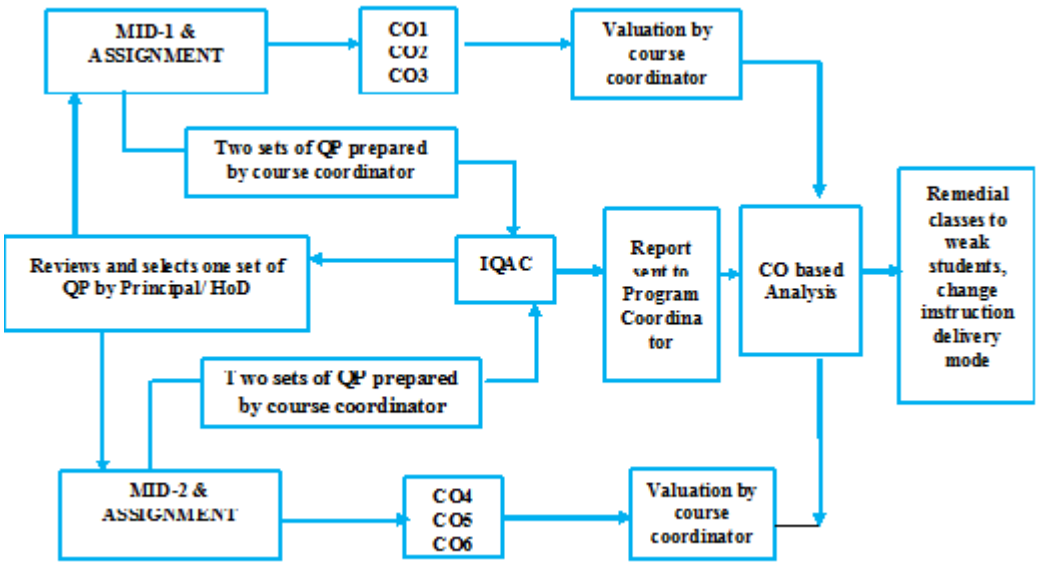


Figure B.2.2.2.a: Process for Internal Examination evaluation &assessment

The Sample Question paper under R16 Regulations for Operating Systems of Mid-I is shown below:

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Kapujaggarajupeta,VSEZ(Post), Visakhapatnam-530 049)

Mid Term Examination-I

SET-1

(III- B.Tech Ist Sem, Regulations: R16)

Course Name: Operating System **Max Time: 1 ½ Hrs.**

Branch: CSE A/B/C **Max Marks: 15**

Faculty: Mrs.N.Soujanya Kumari,Mrs.B.Sailaja, Ms.Afsheen Firdous **Date:01-02-2021**

CO: Course Outcome no. (1-6), LEVEL: Revised Bloom's Taxonomy level no. (1-6)

Answer **ALL** Questions **3x5=15 M**

<table>
<tr><th>CO</th><th>LEVEL</th><th>Q.No</th><th>QUESTION</th></tr>
<tr><td>CO1
(K2)</td><td>1a: K2
1b: K2</td><td>01</td><td>a) Discuss different categories of System calls with suitable examples. (3M)
b) Describe Real time operating system in detail. (2M)</td></tr>
<tr><td>CO2
(K3)</td><td>2a: K3
2b: K2</td><td>02</td><td>a) Apply i) FCFS ii) SJF on below data and calculate average waiting time and average turnaround time.(3M)
<table>
<tr><th>Processes</th><th>B.T</th></tr>
<tr><td>A</td><td>5</td></tr>
<tr><td>B</td><td>4</td></tr>
<tr><td>C</td><td>2</td></tr>
<tr><td>D</td><td>4</td></tr>
</table>
b) Differentiate User level threads and Kernel level threads. (2M)</td></tr>
<tr><td>CO3
(K3)</td><td>3: K3</td><td>03</td><td>Apply FIFO and LRU Page replacement algorithms on the following reference String: 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 1, 2, 0, 1, 7, 0, 1 (5M)</td></tr>
</table>

*** K1 (R) :Remembering, K2 (U) : Understanding, K3 (P) :Applying,**
*** K4 (A) : Analyzing, K5 (E) : Evaluating, K6 (C) : Creating.**

COURSE CODE:R1631055

Figure B.2.2.2.b: Sample Question paper for Operating Systems MID – I

The scheme of evaluation to the above question paper for the course Operating Systems of Mid-I is shown below:

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530049, AP)

Scheme of Evaluation: Mid Term Examination-I

(III- B.Tech I Sem, Regulations: R16)

SET-1

Course Name: Operating System **Max Time: 1 ½ Hrs.**

Branches: III CSE A/B/C **Max Marks: 15**

Faculty: Mrs.N.Sowjanya Kumari /Mrs.B.Sailaja/Ms.Afsheen Firdous **Date: 01-02-2021**

Q. No	Scheme of Evaluation	Marks Allocated
01	a) List of System calls • Process Control • File Management • Device Management • Information Maintenance • Communications Explanation of system calls	**1M** **2M**
	b) Explanation of Hard Real time system Explanation of Soft Real time system	**1M** **1M**
02	a) FCFS abbreviation and explanation Average Waiting Time Formula = (Sum of waiting times)/ no of Processes) Average Waiting Time Formula = 6.25ms Average Turnaround Time= (Sum of Turnaround Time)/ no of Processes) Average Turnaround Time = 10ms SJF abbreviation and small explanation Average Waiting Time Formula = (Sum of waiting times)/ no of Processes) Average Waiting Time=4.5ms Average Turnaround Time= (Sum of Turnaround Time)/ no of Processes) Average Turnaround Time=8.25ms	**½ M** **½ M** **½ M** **½ M** **½ M** **½ M**

	b) Explanation of User level threads Explanation of Kernel level threads Comparison of User level threads and Kernel level threads	**½ M** **½ M** **1M**
03	Abbreviations of FIFO, LRU FIFO solution LRU solution	**1M** **2M** **2M**
Total Marks		**15M**

COURSE CODE: R1631055

Figure B.2.2.2.c: Scheme of Evaluation

B. Process to ensure questions from outcomes/learning levels perspective (5)

- The department ensures that the faculties strictly follow the learning levels while preparing the question paper for internal examination.
- The course coordinator defines the Course Outcomes for the allotted course and maps the COs to PO's.
- The COs are written considering the contents in the syllabus and the ability of the student to learn after successful completion of the course.
- The verb used to describe the CO specifies the Blooms Taxonomy level of understanding.
- The course coordinator while preparing the questions for internal examination ensures that the questions framed are also mapped to the same level as defined by COs and is clearly indicated in the question paper.

Course Name: **OPERATING SYSTEM**	Course Code:**305**
Year/ Sem : III **B TECH I SEM**	Regulation: **R16**
Admitted Batch: **2018**	Academic Year:**2020-21**
Course Coordinator : **Mrs.B.Sailaja**	

CO	DESCRIPTION
CO1	Illustrate the most essential services and system calls provided by an operating system to user.
CO2	Organize the process and its scheduling, evaluation criteria for selecting a CPU scheduling algorithm and threads by their communication models.
CO3	Demonstrate memory hierarchy, virtual memory management techniques with benefits of paging and various page replacement algorithms.
CO4	Develop different methods for preventing or avoiding deadlocks in a computer system.

CO5	Utilize file access methods, structures, space allocation methods in files and disks with disk scheduling.
CO6	Explain the key components of Linux with the establishment of communication, consistency and android operating system internals.

CO	ACTION VERB	REVISED BLOOMS TAXONOMY LEVEL
1	Illustrate	(Understanding)K2
2	Organize	(Apply)K3
3	Demonstrate	(Apply)K3
4	Develop	(Apply)K3
5	Utilize	(Apply)K3
6	Explain	(Understanding)K2

Table B.2.2.2.a: Questions with their levels along with the COs for the Operating Systems

It is very clear from the question paper above that the Mid-1 paper from the first three units covers the CO's either with the same level or a lower level.

Question	Action verb used	REVISED BLOOMS TAXONOMY LEVEL
1a	Discuss	(Understanding)K2
1b	Describe	(Understanding)K2
2a	Apply	(Apply)K3
2b	Differentiate	(Understanding)K2
3	Apply	(Apply)K3

C. Evidence of COs coverage in class tests/mid-term tests

For example, considering the COs of course operating system and comparing it with Mid-I and Mid-II paper verifying the coverage of COs in the question paper is shown below:

The Course Outcomes of the operating system for R16 regulation are

CO1: Illustrate the most essential services and system calls provided by an operating system to user.

CO2: Organize the process and its scheduling, evaluation criteria for selecting a CPU scheduling algorithm and threads by their communication models.

CO3: Demonstrate memory hierarchy, virtual memory management techniques with benefits of paging and various page replacement algorithms.

CO4: Develop different methods for preventing or avoiding deadlocks in a computer system

CO5: Utilize file access met HoDs, structures, space allocation methods in files and disks with disk scheduling.

CO6: Explain the key components of Linux with establishment of communication, consistency and android operating system internals

Considering Set I of Mid I:

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Kapujaggarajupeta,VSEZ(Post), Visakhapatnam-530 049)

Mid Term Examination-I

(III- B.Tech Ist Sem, Regulations: R16)

SET-1

Course Name: Operating System **Max Time: 1 ½ Hrs.**

Branch: CSE A/B/C **Max Marks: 15**

Faculty: Mrs.N.Soujanya Kumari,Mrs.B.Sailaja, Ms.Afsheen Firdous **Date:01-02-2021**

CO: Course Outcome no. (1-6), LEVEL: Revised Bloom's Taxonomy level no. (1-6)

Answer **ALL** Questions **3x5=15 M**

<table>
<tr><th>CO</th><th>LEVEL</th><th>Q.No</th><th>QUESTION</th></tr>
<tr><td>CO1
(K2)</td><td>1a: K2
1b: K2</td><td>01</td><td>a) Discuss different categories of System calls with suitable examples. (3M)
b) Describe Real time operating system in detail. (2M)</td></tr>
<tr><td>CO2
(K3)</td><td>2a: K3
2b: K2</td><td>02</td><td>a) Apply i) FCFS ii) SJF on below data and calculate average waiting time and average turnaround time. (3M)
<table>
<tr><th>Processes</th><th>B. T</th></tr>
<tr><td>A</td><td>5</td></tr>
<tr><td>B</td><td>4</td></tr>
<tr><td>C</td><td>2</td></tr>
<tr><td>D</td><td>4</td></tr>
</table>
b) Differentiate User level threads and Kernel level threads. (2M)</td></tr>
<tr><td>CO3
(K3)</td><td>3: K3</td><td>03</td><td>Apply FIFO and LRU Page replacement algorithms on the following reference String: 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 1, 2, 0, 1, 7, 0, 1 (5M)</td></tr>
</table>

*** K1 (R): Remembering, K2 (U): Understanding, K3 (P) :Applying,**
*** K4 (A): Analyzing, K5 (E) : Evaluating, K6 (C) : Creating.**

COURSE CODE:R1631055

Figure B.2.2.2.d: Sample Question paper for Operating Systems MID – I

Justification of Bloom's taxonomy action verbs in question paper:

CO No.	Action Verbs Used	Revised Blooms Taxonomy Level	Question No.	Question Verbs	Revised Blooms Taxonomy Level
1	Illustrate	(Understanding)K2	1a	Discuss	(Understanding)K2
			1b	Describe	(Understanding)K2
2	Organize	(Apply)K3	2a	Apply	Apply (**K3**)
			2b	Differentiate	(Understanding)K2
3	Demonstrate	(Apply)K3	3	Apply	Apply (**K3**)

Table B.2.2.2.b: Justification of Bloom's taxonomy action verbs in question paper

It is very clear that the questions in the mid question paper covers the taxonomy level specified with the course outcomes for course Operating Systems and the same followed for all

D. Quality of Assignments and its relevance to COs

- Assignments are given to students from the topics covered for each unit and satisfy the COs defined.
- The questions framed in the assignments are taken from multiple sources (previous question papers, textbooks, etc) and cover not only the theoretical concepts but also impart creativity on real-time applications.
- Six Assignments covering each unit are given in each subject for every semester.
- Every Assignment carries 5 marks and an average of 3 assignments for 5 marks is considered for mid exam.
- The assignments are evaluated within two weeks after submission and the valued assignments are returned to the students for their scrutiny and improvement. Mapping is done for all questions of the assignment with the COs of the course.
- The quality of the assignment questions is also audited by IQAC.

Sample Assignment questions under R16 Regulations for Operating Systems is below:

	VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN *Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada* Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530049, AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ASSIGNMENT QUESTIONS: MID-I

Course Name : **Operating Systems**	Course Code : **C305**
Year /Sem : **III A,B & C Sem 1**	Regulation : **R16**
Admitted Batch : **2018**	Academic Year : **2020-21**
Course Coordinator : **Mrs.B.Sailaja**	Faculty Name : **Mrs.N.Sowjanya Kumari / Mrs.B.Sailaja/ Mr. I. Raju**

<table>
<tr><th>S. No</th><th>CO Level</th><th>Question Level</th><th>Q. No</th><th>Questions</th><th>Issue Date</th><th>Submission Date</th></tr>
<tr><td rowspan="2">Assignment 1</td><td rowspan="2">CO1
K2</td><td>K2</td><td>1.</td><td>classify the client server and peer-to-peer models of distributed operating systems</td><td rowspan="2">5/12/20</td><td rowspan="2">9/12/20</td></tr>
<tr><td>K2</td><td>2.</td><td>Outline OS layered architecture and its components</td></tr>
<tr><td rowspan="2">Assignment 2</td><td rowspan="2">CO2
K3</td><td>K3</td><td>1.</td><td>Calculate Average waiting time and average turnaround time. If the CPU scheduling policy is Round Robin with timeslice = 2
<table>
<tr><th>Processes</th><th>Arrival time</th><th>Priority</th></tr>
<tr><td>P0</td><td>0</td><td>5</td></tr>
<tr><td>P1</td><td>1</td><td>3</td></tr>
<tr><td>P2</td><td>2</td><td>1</td></tr>
<tr><td>P3</td><td>3</td><td>2</td></tr>
<tr><td>P5</td><td>4</td><td>3</td></tr>
</table></td><td rowspan="2">26/12/20</td><td rowspan="2">31/12/20</td></tr>
<tr><td>K2</td><td>2.</td><td>Distinguish Short term, medium term and long term scheduling.</td></tr>
<tr><td rowspan="2">Assignment 3</td><td rowspan="2">CO3
K3</td><td>K3</td><td>1.</td><td>Make use of the following page references string1,2,3,4,2,1,5,6,1,2,3,7,6,3,2,1,2,3,6 How many page faults could occur for the LRU, FIFO page replacement algorithms assuming 5 is frame size?</td><td rowspan="2">3/2/21</td><td rowspan="2">8/2/21</td></tr>
<tr><td>K3</td><td>2.</td><td>Schedule five memory partitions of size 100 KB, 500 KB, 200 KB, 450 KB and 600 KB in same order. If sequence of requests for blocks of size 212 KB, 417 KB, 112 KB and 426 KB in same order come, then which of the following algorithm makes the efficient use of memory?</td></tr>
</table>

Figure B.2.2.2.e: Sample Assignment Questions

CO	ACTION VERB	REVISED BLOOMS TAXONOMY LEVEL	Assignment Verbs	REVISED BLOOMS TAXONOMY LEVEL
1	Illustrate	(Understanding)K2	Classify, Outline	(Understanding)K2 (Understanding)K2
2	Organize	(Apply)K3	Calculate, Distinguish	(Apply)K3 (Understanding)K2
3	Demonstrate	(Apply)K3	Make Use of, Schedule	(Apply)K3 (Apply)K3

2.2.3. Quality of Student Projects (25)

It is imperative to promote the spirit of inquiry among students since lifelong learning is a synergy between teaching and research. The knowledge through lectures in classrooms, hands on experience in laboratories and self-preparation in libraries do not expose students to real life situations. The adoption of participatory approach in learning, whereby the students involve themselves in identifying a problem, analysing the causes and finding the solution objectively will have a positive impact on the students and will make the learning process more meaningful and interesting.

- Under JNTUK regulations, Project work is in IV Year II semester and the project batch allotment is done towards the end of III-year II semester
- To ensure quality in the projects implemented by the students in the department, procedural steps are implemented that includes planning, scheduling and implementation related to the completion of project.
- Separate project lab facility is provided to the students throughout the day for successful completion of the project.
- Internet is also provided to browse the literature survey and data required throughout the day.
- Software tools such as Python, MATLAB, Java, Oracle, Visual Studio .net, etc., for implementing their projects in various fields are provided in the project Lab.
- Hardware boards along with the essential hardware sensors are available in department Laboratories to support IoT project implementation.

A. Identification of Projects and Allocation Methodology to Faculty Members (3)

The HoD conducts a meeting with the senior faculty and Project Review Committee (PRC) members before the semester regarding identification of projects. In the meeting the thrust areas involving latest technologies are identified. The areas include Machine Learning, IoT, Artificial

Intelligence, Cloud Computing, and Big Data which are also research domains of the faculty in the department. Few of the problem statements are identified in these areas so that the students choose the areas depending upon their interest. The process of student projects is shown in Figure B.2.2.3a.

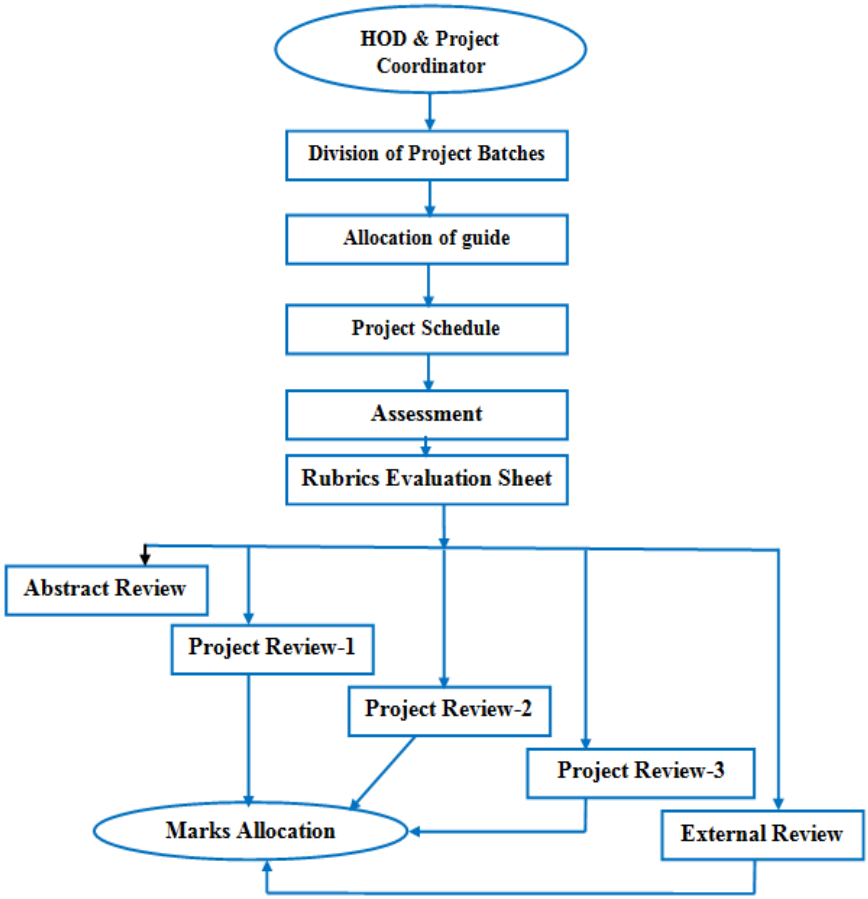


Figure B.2.2.3.a: Process followed for Student Project

Batch Formation

The students are divided into Project work batches by first ranking the students based on their performance in examinations (CGPA/average SGPA/number of backlogs) up to III year II semester / III Year I Semester. For example, for 15 batches the top 15 students are nominated as team leaders for the respective batches. The 16th ranker is allotted to the 15th batch, 17th ranker to the 14th batch and so on with the 30th ranker to the 1st batch. The 31th ranker is then allotted to the 1st batch and the cycle is repeated. The sample copy of student team formation is shown in figure B.2.2.3.b

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

No:VIEW/CSE/2020-21/Proj/02 **22.04.2021**

2017 Admitted Batch-IV B.Tech II Semester Project batch formation

With reference to No:VIEW/CSE/2020-21/Proj/01, dated 22.04.2021, the following are the formation of project batches, strictly as per their rank in the overall result analysis. Each project batch contains 4 to 5 students.

SECTION-A

S. No	Regd. No	Name of The Student	CGPA	Class Rank	Batch Id
1	17NM1A0504	Agathamudi Manasa	8.83	1	A01
2	17NM1A0545	Gadidala Vathsalya	7.87	29	
3	17NM1A0518	Bhimuni Bhargavi	7.82	31	
4	17NM1A0536	Dandabathini Ankitha	5.46	60	
5	17NN1A05B5	Vuppala Manisha	5.19	61	
6	17NM1A0548	Gantla Joshna	8.81	2	A02
7	17NM1A0501	A V K Pravallika	7.87	29	
8	17NM1A0559	Jakkuva Manasa	7.81	32	
9	17NM1A0558	Isukapatla Ramya	5.86	59	
10	17A61A0507	Challa Renuka Devi	7.15	62	
11	17NM1A0546	Gali Tejaswini	8.67	3	A03
12	17NM1A0528	Ch Monisha	7.89	28	
13	17NM1A0513	Baliboyena Divya	7.55	33	
14	17NM1A0538	Dulam Layasree	5.97	58	
15	17NM1A0506	Alluri Bhavana	4.58	63	

16	17NM1A0509	Anne Sri Rekha	8.67	3	A04
17	17NM1A0531	Chongali Madhulika	7.92	27	
18	17NM1A0549	Gavireddy Manasa	7.54	34	
19	17NM1A0527	Chevveti Virinchita	6.11	57	
20	17NM1A0560	J G K S S Sowmya	5.37	64	
21	17NM1A0556	G Sai Chandana	8.61	5	A05
22	17NM1A0537	Deredla Vineetha Sri	7.93	26	
23	17NM1A0550	Gavva Rani	7.53	35	
24	17NM1A0523	B L A Kiranmai	6.13	56	
25	17NM1A0512	Ayithi Deepika	8.58	6	A06
26	17NM1A0502	Adapa Sai Santhoshi	7.96	25	
27	17NM1A0535	Dadi Sowmya	7.52	36	
28	17NM1A0552	G S Sirisha	6.37	55	
29	17NM1A0510	A S Geetha	8.55	7	A07
30	17NM1A0522	Bokka Sri Sai Manasa	7.97	24	
31	17NM1A0539	Dunna Sindhu	7.47	37	
32	17NM1A0529	Ch Sai Likhita	6.49	54	
33	17NM1A0557	Gunna Madhusri	8.53	8	A08
34	17NM1A0521	Boddeda Utteja	8	23	
35	17NM1A0525	Borra Sunitha	7.43	38	
36	17NM1A0514	B C N Sai Sarada	6.73	53	
37	17NM1A0554	Gorusu Sravani	8.5	9	A09
38	17NM1A0542	E Harsha Vardhini	8.01	22	
39	17NM1A0540	Dwarapudi Joshitha	7.39	39	
40	17NM1A0534	Dadala Charanya	6.58	52	
41	17NM1A0561	Jerripothula Nadiya	8.46	10	A10

42	17NM1A0511	Arnipalli Shivani	8.06	21	
43	17NM1A0526	Boyidi Supriya	7.38	40	
44	17NM1A0541	E Sirisha Rani	6.58	51	
45	17NM1A0551	G Ananda Bhavani	8.42	11	A11
46	17NM1A0517	Behara Anusha	8.11	20	
47	17NM1A0530	Chintada Alekhya	7.36	41	
48	17NM1A0544	G Poojitha Sri Lakshmi	6.63	50	
49	17NM1A0532	Choppa Nandini	8.39	12	A12
50	17NM1A0515	Basana Harshini	8.15	19	
51	17NM1A0524	Bonam Roshini	7.33	42	
52	16NM1A0580	N Balamaheswari	7.32	49	
53	17NM1A0520	Bodda Akhila	8.38	13	A13
54	17NM1A0553	Gompa Nikhila	8.2	18	
55	17NM1A0503	Addala Lakshmi	7.27	43	
56	17NM1A0555	Gullipalli Jahnavi	7.09	48	
57	17NM1A0562	Joba Kumari	8.35	14	A14
58	17NM1A0533	D Priya	8.2	17	
59	17NM1A0508	Anga Deepika	7.22	44	
60	17NM1A0543	G Nagamani	7.05	47	
61	17NM1A0507	Ambati Sireesha	8.33	15	A15
62	17NM1A0516	Batchu Sushmita	8.33	15	
63	17NM1A0505	A U S N Durga Chinni	7.11	45	
64	17NM1A0519	Birlangi Sirisha	7.09	46	

Table B.2.2.3.a: 2017 Admitted Project batch allocation based on CGPA & Class Rank

Guide Allocation Methodology:

- The knowledge, methodology, skill set and interest of the students to implement the project are considered to undertake the projects. All the faculties are allocated as guides to guide the student's project. Each project batch will have at most five students. Faculty profile should match with the domain of the student's project. The project batches are notified to the students along with the areas offered by the faculty members with guide names. The guide allotment is completely the responsibility of the head of the department.

- Based on the student area of interest over the project and the faculty domain knowledge the team is going to be finalized with guide by the Head of the Department and is displayed in department notice board for student and faculty reference.

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi. Affiliated to JNTU Kakinada
Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

No:VIEW/CSE/2020-21/Proj/04 **18.03.2021**

2017Admitted Batch-IV B.Tech II Semester

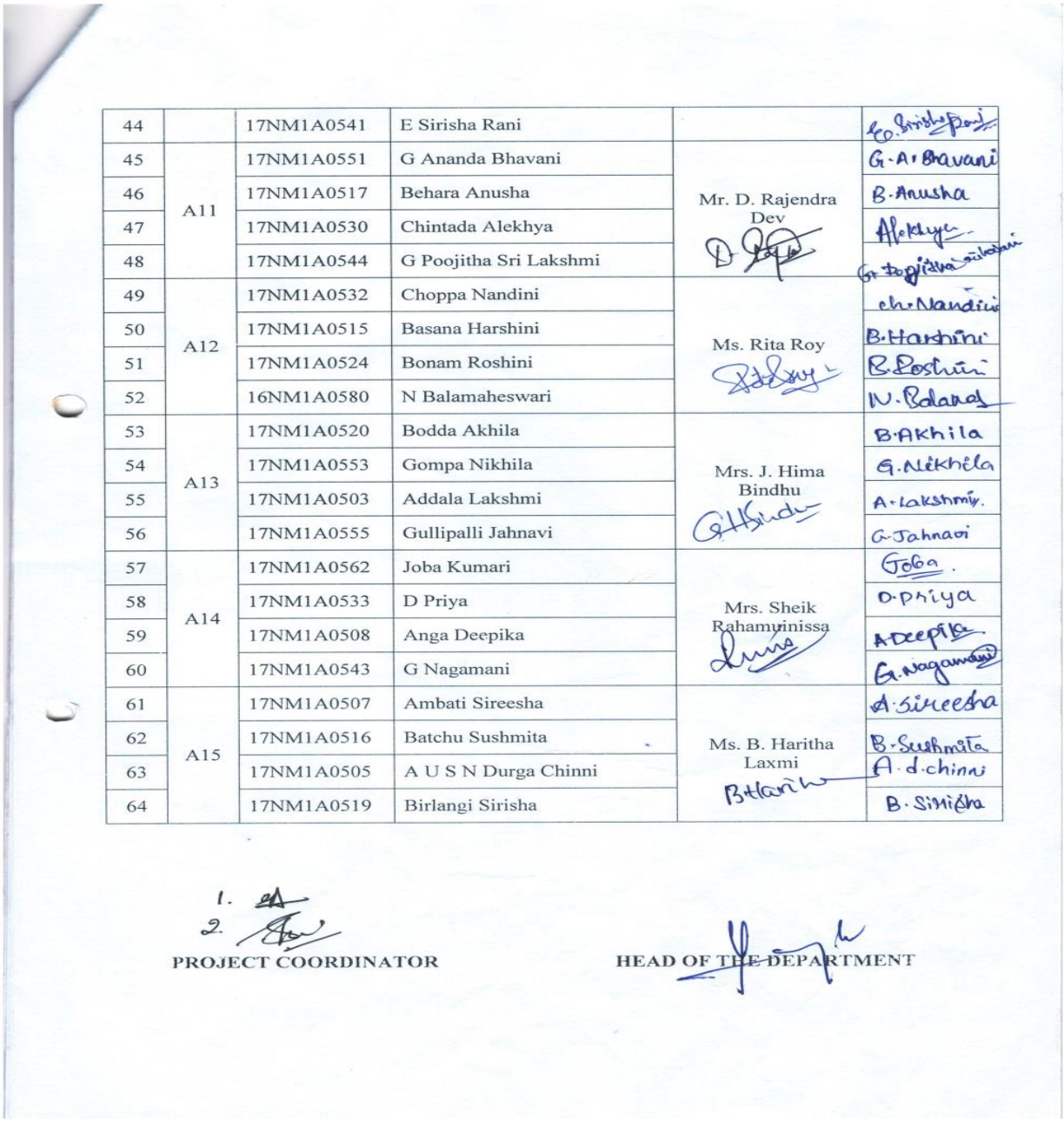
Project batch Guide Allocation

With reference to No: VIEW/CSE/2020-21/Proj/01, dated12.04.2021, the following are the list of project Guides for the batches allotted. All the students are informed to meet the Project Guide and complete the project as per the schedule given.

SECTION-A

S. No	Batch No	Regd. No	Name of The Student	Name of Guide	Signature of student
1	A01	17NM1A0504	Agathamudi Manasa	Dr. K. Vijaya Kumar	A. Manasa
2		17NM1A0545	Gadidala Vathsalya		Vathsalya
3		17NM1A0518	Bhimuni Bhargavi		B. Bhargavi
4		17NM1A0536	Dandabathini Ankitha		D. Ankitha
5		17NN1A05B5	Vuppala Manisha		Manisha
6	A02	17NM1A0548	Gantla Joshna	Dr. P. Vijaya Bharati	G. Joshna
7		17NM1A0501	A V K Pravallika		A.V.K. pravallika
8		17NM1A0559	Jakkuva Manasa		J. Manasa
9		17NM1A0558	Isukapatla Ramya		I. Ramya
10		17A61A0507	Challa Renuka Devi		Ch. Renuka Devi
11	A03	17NM1A0546	Gali Tejaswini	Mrs.M.Pallavi	G. Tejaswini
12		17NM1A0528	Ch Monisha		Ch. Monisha
13		17NM1A0513	Baliboyena Divya		B. Divya
14		17NM1A0538	Dulam Layasree		D. Layasree
15		17NM1A0506	Alluri Bhavana		A. Bhavana
16	A04	17NM1A0509	Anne Sri Rekha	Mrs.N.Sunitha	Rekha S

17		17NM1A0531	Chongali Madhulika		Ch. Madhulika
18		17NM1A0549	Gavireddy Manasa		G. Manasa.
19		17NM1A0527	Chevveti Virinchita		ch.Virinchita
20		17NM1A0560	J G K S S Sowmya		J. Jeetha Sree
21	A05	17NM1A0556	G Sai Chandana	Ms.Y.Vineela Sravya	G.Sai Chandana
22		17NM1A0537	Deredla Vineetha Sri		D. Vineetha Sri
23		17NM1A0550	Gavva Rani		G. Rani
24		17NM1A0523	B L A Kiranmai		B.
25	A06	17NM1A0512	Ayithi Deepika	Mrs.D.Kiranmayi	A. Deepika
26		17NM1A0502	Adapa Sai Santhoshi		A.S.Santhoshi
27		17NM1A0535	Dadi Sowmya		D. Sowmya
28		17NM1A0552	G S Sirisha		G. Sirisha
29	A07	17NM1A0510	A S Geetha	Mrs. G. Sandhya	A. Swarnageetha
30		17NM1A0522	Bokka Sri Sai Manasa		B.S.S.Manasa
31		17NM1A0539	Dunna Sindhu		D. Sindhu
32		17NM1A0529	Ch Sai Likhita		Sai Likhita
33	A08	17NM1A0557	Gunna Madhusri	Mr.L.Jagajeevan Rao	G. Madhusri
34		17NM1A0521	Boddeda Utteja		B. Utteja
35		17NM1A0525	Borra Sunitha		B. Sunitha
36		17NM1A0514	B C N Sai Sarada		Sarada
37	A09	17NM1A0554	Gorusu Sravani	Mrs. N. Sowjanya Kumari	G. Sravani
38		17NM1A0542	E Harsha Vardhini		E. Harshavardhini
39		17NM1A0540	Dwarapudi Joshitha		D. Joshitha
40		17NM1A0534	Dadala Charanya		D. Charanya
41	A10	17NM1A0561	Jerripothula Nadiya	Mr.R.Ravi	J. Nadiya
42		17NM1A0511	Arnipalli Shivani		A. Shivani
43		17NM1A0526	Boyidi Supriya		B. Supriya



44		17NM1A0541	E Sirisha Rani		
45	A11	17NM1A0551	G Ananda Bhavani	Mr. D. Rajendra Dev	
46		17NM1A0517	Behara Anusha		
47		17NM1A0530	Chintada Alekhya		
48		17NM1A0544	G Poojitha Sri Lakshmi		
49	A12	17NM1A0532	Choppa Nandini	Ms. Rita Roy	
50		17NM1A0515	Basana Harshini		
51		17NM1A0524	Bonam Roshini		
52		16NM1A0580	N Balamaheswari		
53	A13	17NM1A0520	Bodda Akhila	Mrs. J. Hima Bindhu	
54		17NM1A0553	Gompa Nikhila		
55		17NM1A0503	Addala Lakshmi		
56		17NM1A0555	Gullipalli Jahnavi		
57	A14	17NM1A0562	Joba Kumari	Mrs. Sheik Rahamunissa	
58		17NM1A0533	D Priya		
59		17NM1A0508	Anga Deepika		
60		17NM1A0543	G Nagamani		
61	A15	17NM1A0507	Ambati Sireesha	Ms. B. Haritha Laxmi	
62		17NM1A0516	Batchu Sushmita		
63		17NM1A0505	A U S N Durga Chinni		
64		17NM1A0519	Birlangi Sirisha		

1.
2.

PROJECT COORDINATOR

HEAD OF THE DEPARTMENT

Figure B.2.2.3.b: 2017 Admitted Project batch allocation with guide

B. Types and Relevance of the Projects and their Contribution towards Attainment of POs and PSOs

Project is generally meant to facilitate students to think innovatively on the development of different software products or technologies in the field of Computer Science and Engineering. Students are expected to:

- Perform a deep study of the topic assigned in light of the introductory report prepared in the seventh semester.
- Analyze and finalize the approach to the problem.
- Prepare steps for conducting the investigation, including teamwork.
- Perform detailed analysis/ modelling/ simulation/ design/ problem solving/experiment as needed.
- Develop a final product/ process, perform testing, and arrive at results and conclusions. If possible suggest future directions.
- If desired prepare paper for presenting in the conference or publishing papers in journals.
- Prepare documentation in the standard format that is required for evaluation by the Internal project Review Committee.

The students Projects have been classified into the types I) Application, II) Product, III) Research and IV) Review.

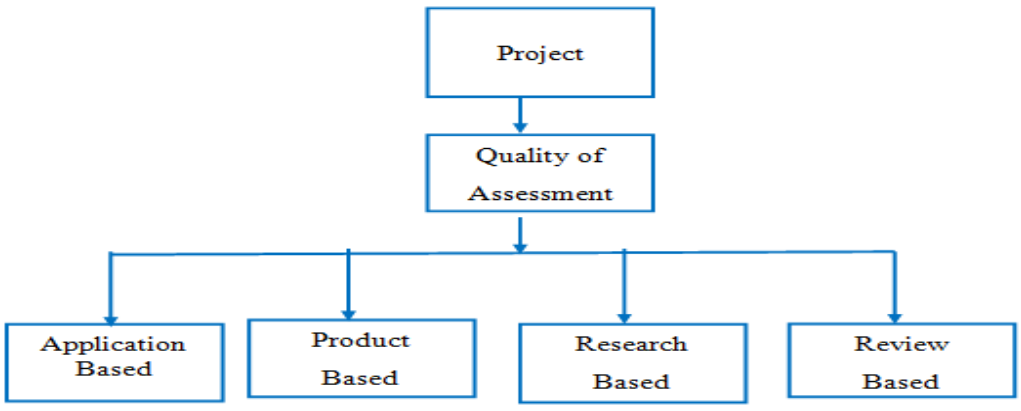


Figure B.2.2.3.c: Project Categorization

Projects Types	Number of projects carried out based on various categories			
	CAY (2020-21)	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)
Application Based	26	18	12	12
Product Based	03	6	12	10
Research Based	10	10	10	12
Review Based	06	12	12	12

Table B.2.2.3.b: Type of Projects

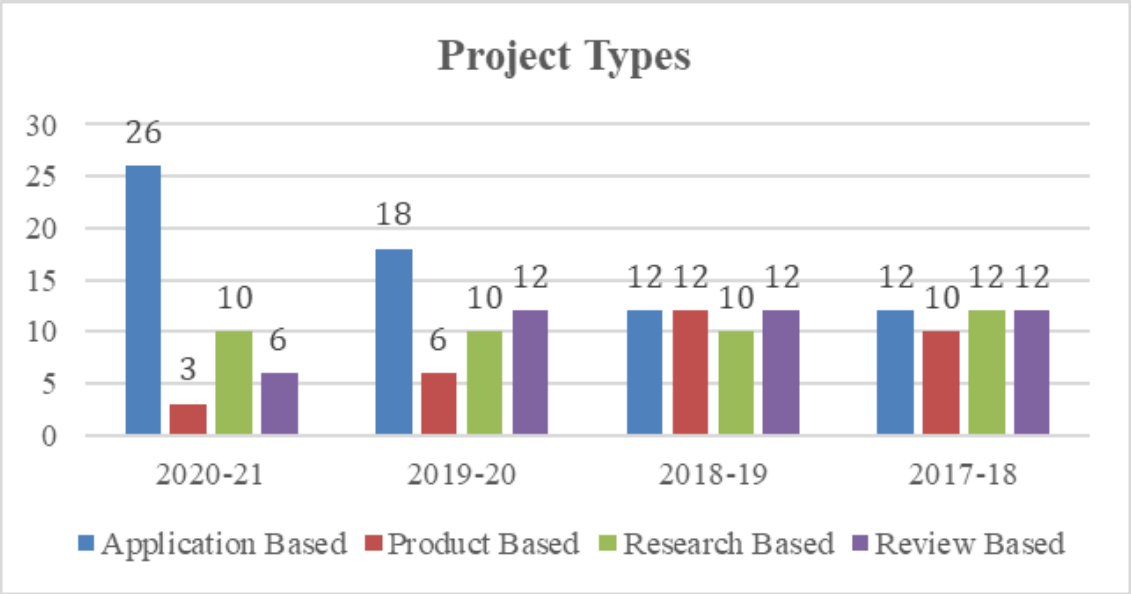


Figure B.2.2.3.d Comparing the types of Projects for the last 04 Academic years

Project Types	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Application Based	3	2	3	3	2	3	3	3	3	2	2	3	3	2
Product based	3	3	3	3	3	2	2	2	3	2	2	3	3	2
Research based	3	3	3	3	3	2	2	2	3	2	2	3	2	3
Review Based	3	3	2	3	3	2	2	2	3	2	2	3	2	3

Table B.2.2.3.c: Mapping of Categorized Projects to Program Outcomes

The quality of student projects is ensured and assured through the achievement of the well-articulated course outcomes. All student project works consider the factors such as environment, safety, ethics, cost and standards. This is ensured through proper instruction by the project guides as well as through project reviews, where focus is on attainment of COs.

CO	Course Outcomes for Student Projects	Relevance to POs /PSOs
CO1	Demonstrate the technical knowledge to identify problems in the field of Computer Science and Engineering and its related areas. (K4)	PO1 – PO12 PSO1 PSO2
CO2	Analyse and formulate technical projects with a comprehensive and systematic approach(K4)	
CO3	Identify the modern tools to implement technical projects. (K3)	
CO4	Determine various solutions for solving complex engineering problems. (K5)	
CO5	Perceive effective communication skills, professional behaviour and teamwork (K5)	

Table B.2.2.3.d: Project COs with POs and PSOs

Batch No	Regd. No	Name of The Student	Allotted Guide	Title of Project	Project Type	Relevance to POs / PSOs
C01	17NM1A05E0	R Bharathi Jyothi	Mrs.V.Sree Lahari	Accuracy Analysis using Machine Learning Classifier for Hardware Trojan Detection	Review	PO1-PO12 PSO1
	17NM1A05C1	Pappu Sri Sai Keerthi				
	17NM1A05F8	Srisailapu Sireesha				
	17NM1A05D2	Pulidindi Krishna Priya				
	17NM1A05F0	Seeramreddi Namratha				
C02	17NM1A05F1	Silaparasetty Sushma	Dr. G. Neelima	Fake User Detection Using Machine Learning Techniques	Application	PO1-PO12 PSO2
	17NM1A05H3	V Vijaya Lakshmi				
	17NM1A05H6	Y D N Sai Bhanusri				
	18NM5A0519	Tekkali Roopa Sravani				
	17NM1A05F4	Singampalli Yamini				
C03	17NM1A05D9	Rayudu L V Srujana	Mr.V.Ramarao	Music Genre Classification Using Deep Learning	Application	PO1-PO12 PSO2
	17NM1A05E6	Sanapathi Bhagyasri				
	18NM5A0518	S Naga Laxmi Yamini				
	17NM1A05G9	Vasireddy Swapnika				
	17NM1A05H5	Yelleti Yamini				
C04	17NM1A05D3	Pureti Likhitha	Mrs.M.Pallavi	Sentiment Analysis Using Deep Neural Network On Movie Reviews	Application	PO1-PO12 PSO2
	17NM1A05D0	Ponnada Bhavya				
	17NM1A05E7	Sanapathi Sravani				
	17NM1A05C2	Paricharla Lahari				
	17NM1A05H7	Y Bheemarasetti				
C05	17NM1A05D7	Ramadalai Keerthi	Mr. A. Maheswara Rao	Face recognition and emotion detection System	Application	PO1-PO12 PSO2
	17NM1A05G5	Tokachichu Poojitha				
	17NM1A05F6	Sivaratri Uma Devi				
	17NM1A05D6	Ragolu Sadhana				
	17NM1A05E9	Seekari Rama Devi				
C06	17NM1A05C5	P Rama Lakshmi	Mrs. J. Hima Bindhu	Helmet and License Plate Detection of Two Wheelers Using Open CV and YOLOV5	Product	PO1-PO12 PSO2
	18NM5A0514	Penaganti Devi				
	18NM5A0520	Vasupilli Harini				
	17NM1A05G6	V Kalpana				
	17NM1A05C4	P Jaya Chandrika				
C07	17NM1A05E1	Rongali Tanuja	Ms. Rita Roy	Social Distance Detection Using	Application	

	17NM1A05F3	S Sandhya Rani		Deep Learning		PO1-PO12 PSO2
	17NM1A05D4	Pusapati Revathi				
	17NM1A05G7	V Kusumanjali				
	17NM1A05F9	S Vijayalaxmi				
C08	17NM1A05H8	Chinta Meghana	Mr. V. Sita Ram Prasad	Malaria Detection using Blood Smear Images	Application	PO1-PO12 PSO2
	17NM1A05C7	P Sri Jyothi Meghana				
	17NM1A05F7	Sonti Jahanavi				
	17NM1A05C0	Pamula Gayathri				
C09	18NM5A0516	Ramireddi Chandini	Mrs.B.Sailaja	Stock Price Prediction Using Machine Learning using LSTM and Linear Regression	Review	PO1-PO12 PSO1
	17NM1A05E5	Sanam Rupa Sri				
	18NM5A0513	N Krishna Veni				
	18NM5A0517	Sammingi Nirmala				
C10	17NM1A05G2	T Leela Bhavani	Ms.D.Ramya	Underwater Image Enhancement	Research	PO1-PO12 PSO1
	17NM1A05E3	Sai Rakshitha P				
	18NM5A0515	Polaki Swathi				
	17NM1A05C3	Pasala Anusha				
C11	17NM1A05G3	Talluri Meghana	Mr.M.Anil Kumar	Image Steganography using Python	Application	PO1-PO12 PSO1
	17NM1A05G4	T J N Suryakumari				
	17NM1A05D1	Pothula Jahnavi				
	18NM5A0512	N K S S Priyanka				
C12	17NM1A05H4	Vurukuti Mounica	Mrs.D.Kiranmayi	Credit Card Fraud Detection Using Machine Learning	Application	PO1-PO12 PSO1
	17NM1A05E8	Sappa Sandhya Rani				
	17NM1A05H2	Veturu Ramyalakshmi				
	17NM1A05D8	Rayapureddy Anusha				
C13	17NM1A05F5	Sivala Deepika	Ms. Y. Vineela Sravya	Secure Data Transmission Using Hybrid Cryptography	Research	PO1-PO12 PSO1
	17NM1A05H1	V D L Rajeswari				
	17NM1A05E2	R Yamini Varma				
	17NM1A05F2	Singampalli Ramya				
C14	17NM1A05G0	Surada Haritha	Mrs. G. Sandhya	Design An Analysis of Resume Screening Using Natural Language Processing	Application	PO1-PO12 PSO1
	17NM1A05C9	P Teja Sai Sree				
	18NM5A0521	M Priya Mounika				
	17NM1A05E4	S Sri Varshini				
C15	18NM5A0511	Nagala Chandini	Mr.A.Srinivas	Personality Prediction From Social	Application	

	17NM1A05C8	Pilla Mounika		Media Posts		PO1-PO12 PSO2
	17NM1A05C6	P V Satya Likhitha				
	17NM1A05H0	Vedula Shaankari				

Table B.2.2.3.e: 2017 Admitted batch Projects contribution to attainment of PO and PSO

Project Monitoring

The progress of the project work is continuously monitored. Three Project Reviews are conducted to review the quality and progress of the project work. The panel of examiners called as Project Review Committee (PRC) consists of Project guide, Project coordinator, one senior faculty and the HoD. A Sample circular for Project Schedule is below.

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

No: VIEW/CSE/2020-21/Proj/01 **18.03.2021**

2017 Admitted Batch-IV B.Tech II Semester Project Schedule

For the academic year 2020-21, all the IV B.Tech II Semester (2017 Admitted Batch) students are hereby informed that the students should undergo the course PROJECT work as per the JNTUK R16 Regulations. The following is the detailed schedule.

S.No.	Review & Assessment (RA)	Scope	Tentative Schedule	Marks
1.	Project Initialization	a. Problem Identification b. Domain and technology c. Objective of project d. Submission of abstract e. Weekly plan of work	31.03.2021 to 03.04.2021	
2.	First Review Assessment	a. Literature Survey b. Design c. Methodology and expected results	03.05.2021 to 05.05.2021	20
3.	Second Review Assessment	a. Analysis b. Implementation and Results-status c. Progress of work observation d. Project document status	03.06.2021 to 05.06.2021	20
4.	Final Review Assessment	a. Implementation and Results b. Conclusion and future study c. Submission of project Document.	05.07.2021 to 07.07.2021	20

Guidelines to Students:

1. The total marks allocated for the Project is 200, out of which 60 marks are allocated for Internal Evaluation and the remaining 140 marks are evaluated for External Evaluation.
2. Each project batch contains 4 to 5 students and formation of project batches were strictly as per the rank in the overall result analysis. Each batch can choose a particular domain from the list of domains given and the Project Guides are allocated accordingly.
3. The selection of the project should be Research based, Product based, Application based or Review based.
4. **Research based project** – Do the literature survey in the chosen domain for finding any problem. Review (read the existing research papers) the problem identified – treat it as existing system to solve the problem and find the drawbacks in the existing system. Then propose a solution to overcome the drawbacks specifying few advantages.
5. **Product based project**- Design and develop a product to solve a real time problem.

6. **Application based project-** By using the software and the compatible platform design a web application and specify the advantages to the end user.
7. **Review based project-** Do the literature survey in the chosen domain for finding any problem. Review the problem identified from different existing research papers. Implement the problem using different methods in the papers. Compare them and conclude which is the best solution.
8. Identify the technology (software, tools, platform etc) required and compatible hardware for solving the problem in the chosen domain.
9. The abstract should contain problem specification (identified problem), methods (algorithms, techniques, process etc), proposed results and expected solution.
10. Every batch should submit the timeline of the work week wise to their respective guides.
11. Literature survey states to read the maximum existing research papers with the proposed project work.
12. Analysis of proposed work- Analyze, what was the input, process and expected output of the problem specification. Select the algorithms/ techniques/ process for processing. Divide the process into modules if required.
13. Implementation and Results- Develop code, debug, and test (if required) to achieve the expected results.
14. Prepare Conclusion and Future Study- Specify the conclusion by writing problem specification, achieved output, comparison analysis, Advantages of the proposed system. From the project idea expand the proposed output to specify future study.
15. About the project review and project document submission – instructions will be given later.

PROJECT COORDINATOR

HEAD OF THE DEPARTMENT

Figure B.2.2.3.e: Project Schedule

Project Evaluation

It is anticipated to be a challenge to the rational and novel abilities of students. It gives students the prospect to synthesize and apply the knowledge and analytical skills learned in the different disciplines. The evaluation of project work shall be conducted at the end of the IV year. The total marks allocated for this are 200, out of which 60 marks are allocated for Internal Evaluation and the remaining 140 marks are evaluated for External Evaluation. For internal evaluation, a committee is appointed which includes the Program Coordinator, the supervisor of the project, and a senior faculty member of the department. In a similar way for external evaluation to a committee is appointed the same as internal evaluation. In addition, an external examiner will be appointed by the affiliated university (JNTUK).

- The project review consists of assessment of PPT presentations by the individual students about their work done along with plan of action for the remaining work.
- Factors including, environment, safety, ethics, cost and applicable standards as well as team work and CO-PO/PSO mapping are duly considered in the assessment.
- Suggestions given by the panel or other faculty members are to be incorporated by the students which will be reviewed during the subsequent assessment.
- The evaluation format and the power point presentation made by students during the review assess both individual and team performance.
- Rubrics for Project work assessment has been incorporated

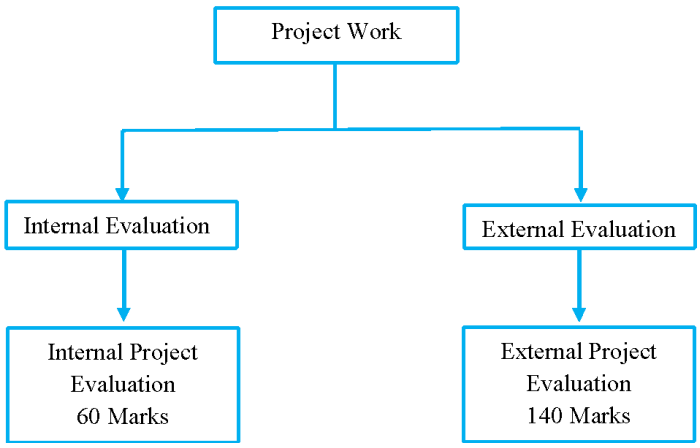


Figure B.2.2.3.f: Project Evaluation

a. Internal Evaluation: It is based on the basis of three seminars given by the individual team on the topic of their project.

b. External Evaluation: It is done at the end of the semester by the committee members.

A. Process to assess Individual and team Performance (5)

All the projects are evaluated batch wise and individual. The grading rubric was included with the problem statement and evidence of group participation included in the grading procedure. To attain maximum marks continuous assessment is carried out by the guide. Weightage will be given to literature survey and presentation by batch and individual. Daily review of the progress of the group and the interaction between students was made by the guide to gain a qualitative measure of performance of the groups and individuals. Quantitative measures were determined with attendance and a group evaluation.

Rubrics for PRC-1, PRC-2 and PRC-3:

Expectations	Exceeded (Professional Work) 10M	Achieved (Medium Quality Work) 8M	Attempted (Low/Poor Quality Work)5M
Goals (10M)	• Student addressed all areas of project proposal thoroughly, specifically meeting stated goals. (4M) • All standards mentioned in proposal, well addressed in project. (4M) • Project purpose made very clear. (1M) • Student exceeded goals of project (1M)	• Student mostly addressed areas of project proposal, specifically meeting stated goals. (4M) • Standards mentioned in proposal addressed. (4M)	• Project proposal is not well defined. (3M) • Standards mentioned in proposal not addressed or not well addressed. (2M)

Expectations	Exceeded (Professional Work) 10M	Achieved (Medium Quality Work) 8M	Attempted (Low/Poor Quality Work)5M

Research (10M)	• All resources are properly documented with both citations and bibliography; notes are present. (2M) • Attention to quality of resources is apparent. (2M) • There is a variety of sources(2M) • People resources are a main part of the work produced. (2M) • The most recent and valuable sources used. (1M) • Student goes outside the Avalon environment to do research. (1M)	• Student documented most sources with citations and bibliography, kept notes. (2M) • Student demonstrated some attention given to quality of sources. (2M) • Bibliography showed variety of sources (with a limited use of internet sources). (2M) • Student connects with an expert (not including advisor or family). (2M)	• Student documented a few sources used and kept some notes. (2M) • Project shows a limited variety of sources. (2M) • Only internet sources are used. (1M)

Table B.2.2.3.e: Rubric Sheet for PRC-1

Expectations	**Exceeded (Professional Quality) 10M**	**Achieved (Medium Quality Work) 8M**	**Attempted (Low/Poor Quality Work)5M**
Process and Improvement (10M)	• All parts of the project process are completed. (2M) • Student asked and answered outstanding questions. (2M) • Student sought out feedback, made appropriate improvements, and can explain creation process. (2M) • Student shows detailed understanding of information, demonstrates significant thoughtfulness (especially in the	• Some parts of the project process are completed. (2M) • Student asked and answered questions. (2M) • Student recognized some needs for improvement and made some of them. (2M) • New information was gathered and some thoughtfulness shown in the reflection. (1M) • Reflection is revised. (1M)	• A few parts of the project process are completed. (1M) • Student asked and answered some questions. (1M) • Student did not seek out feedback for work. (1M) • Little new information is gathered but no thoughtfulness shown. (1M) • Reflection is unrevised and less than a page. (1M)

	reflection), and uses information at a high level. (2M) • Reflection is thoroughly revised. (2M)		

Expectations	Exceeded (Professional Quality)10M	Achieved (Medium Quality Work)8M	Attempted (Low/Poor Quality Work)5M
Project Management (10M)	• Student always on track met all deadlines. (4M) • Learning and time use are precisely documented. (3M) • Student effectively communicated project progress with advisor. (3M)	• Some parts of the project process are completed. (2M) • Student asked and answered questions. (2M) • Student recognized some needs for improvement and made some of them. (2M) • New information was gathered and some thoughtfulness shown in the reflection. (1M) • Reflection is revised. (1M)	• A few parts of the project process are completed. (1M) • Student asked and answered some questions. (1M) • Student did not seek out feedback for work. (1M) • Little new information is gathered but no thoughtfulness shown. (1M) • Reflection is unrevised and less than a page. (1M)

Table B.2.2.3.f: Rubric Sheet for PRC-2

Expectations	Exceeded (Professional Quality) 20M	Achieved (Medium Quality Work)15M	Attempted (Low/Poor Quality Work)10M
Quality of Project with complete execution with all test cases (20M)	• Professional quality product shows originality, creativity, and in-depth study. (5M) • Students generated their own idea. (5M) • There is proof of	• Student adapted ideas from others for the product. (8M) • Product is intended for a specific audience. (7M)	• Poor work. (3M) • No personal interest in final project. (3M) • No demonstration (2M) • No clear awareness of the project. (2M)

	feedback from PRC. (5M) • Product is delivered to specific audience in the real world. (5M)		

Table B.2.2.3.g: Rubric Sheet for PRC-3

Assessment sheets for PRC-1, PRC -2 and PRC -3:

Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Gajjaggarajupeta, VSEZ(Post), Visakhapatnam 530049.AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Project Evaluation Form (PRC-1)

Batch No.: B05 Date: 4/5/2021

Project Title: Near lossless medical image compression using Block BWT-MFT & Hybrid fractal compression techniques

Name of the Project Guide: B. Sailaja

Regd.No.	Name of the student	Goals (10M)				Research (10M)						Total (20M)
		G1 (3M)	G2 (3M)	G3 (2M)	G4 (2M)	R1 (2M)	R2 (2M)	R3 (2M)	R4 (2M)	R5 (1M)	R6 (1M)	
17NM1A05A2	M. Jyothsna	2	2	2	1	2	2	1	2	1	1	16
18NM5A0502	B. Yamuna Kumari	2	2	2	1	1	2	1	2	1	1	15
17NM1A0586	K. Srivallika	2	2	2	1	1	2	1	2	1	1	15
17NM1A05F4	K. Tanuja	1	2	1	1	1	1	1	1	1	1	11

Rubrics for evaluation:

Goals (10)	G1 (3M)	Student addressed all (3)/ two or three (2)/only one(1) areas of project proposal thoroughly, specifically meeting stated goals.
	G2 (3M)	All (3)/ two or three (2)/ Only one (1) standards mentioned in proposal well addressed in project.
	G3 (2M)	Project purpose made very clear (2)/ Clear upto some extent (1).
	G4 (2M)	Goals of project- Completed(2)/ Partially completed
Research (10)	R1 (2M)	All (2)/ some (1) resources are properly documented with both citations and bibliography, notes are present.
	R2 (2M)	Attention to quality of resources is apparent (2) / up to some extent (1).
	R3 (2M)	There is a variety (2)/ unique(1) of sources
	R4 (2M)	Resources submitted by students: main (2) / sub (1).
	R5 (1M)	The most recent and valuable sources used (1) / not used (0).
	R6 (1M)	Student covered (1)/ not covered (0) outside the environment to do research.

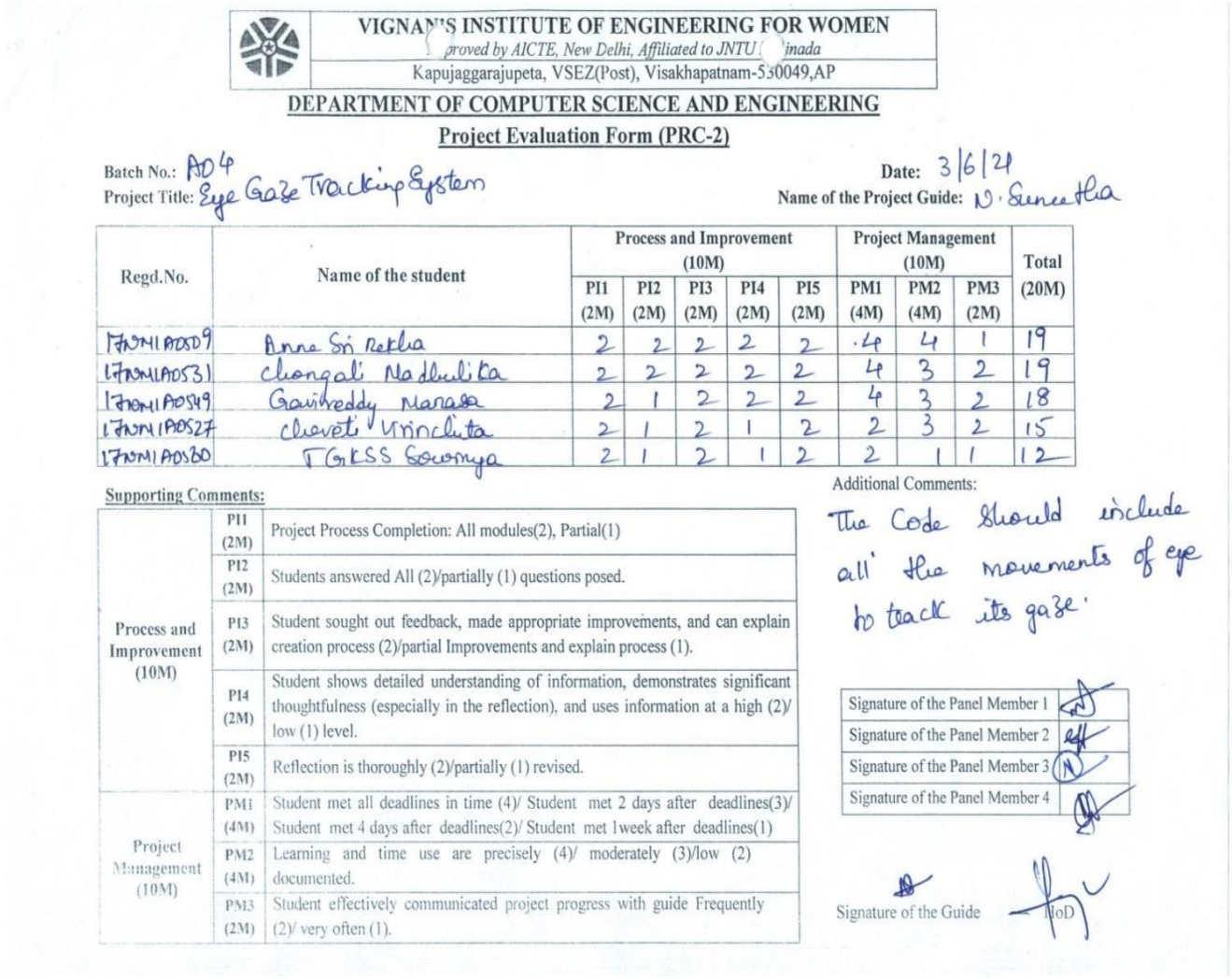
Additional Comments: Concentrate more on proposed Algorithms and its implementation part..

Signature of the Panel Member 1	[signature]
Signature of the Panel Member 2	[signature]
Signature of the Panel Member 3	[signature]
Signature of the Panel Member 4	[signature]

Signature of the Guide HoD

Figure B.2.2.3.g: PRC 1 Project Evaluation

Rubric sheet for PRC-2



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada)
Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Project Evaluation Form (PRC-2)

Batch No.: A04 Date: 3/6/21
Project Title: Eye Gaze Tracking System Name of the Project Guide: D. Sireesha

Regd.No.	Name of the student	Process and Improvement (10M)					Project Management (10M)			Total (20M)
		PI1 (2M)	PI2 (2M)	PI3 (2M)	PI4 (2M)	PI5 (2M)	PM1 (4M)	PM2 (4M)	PM3 (2M)	
17A91A0509	Anne Sri Ratna	2	2	2	2	2	4	4	1	19
17A91A0531	Chongali Nadhulika	2	2	2	2	2	4	3	2	19
17A91A0549	Gaddireddy Manasa	2	1	2	2	2	4	3	2	18
17A91A0527	Chevuri Vrinchita	2	1	2	1	2	2	3	2	15
17A91A0530	T GKSS Soumya	2	1	2	1	2	2	1	1	12

Supporting Comments:

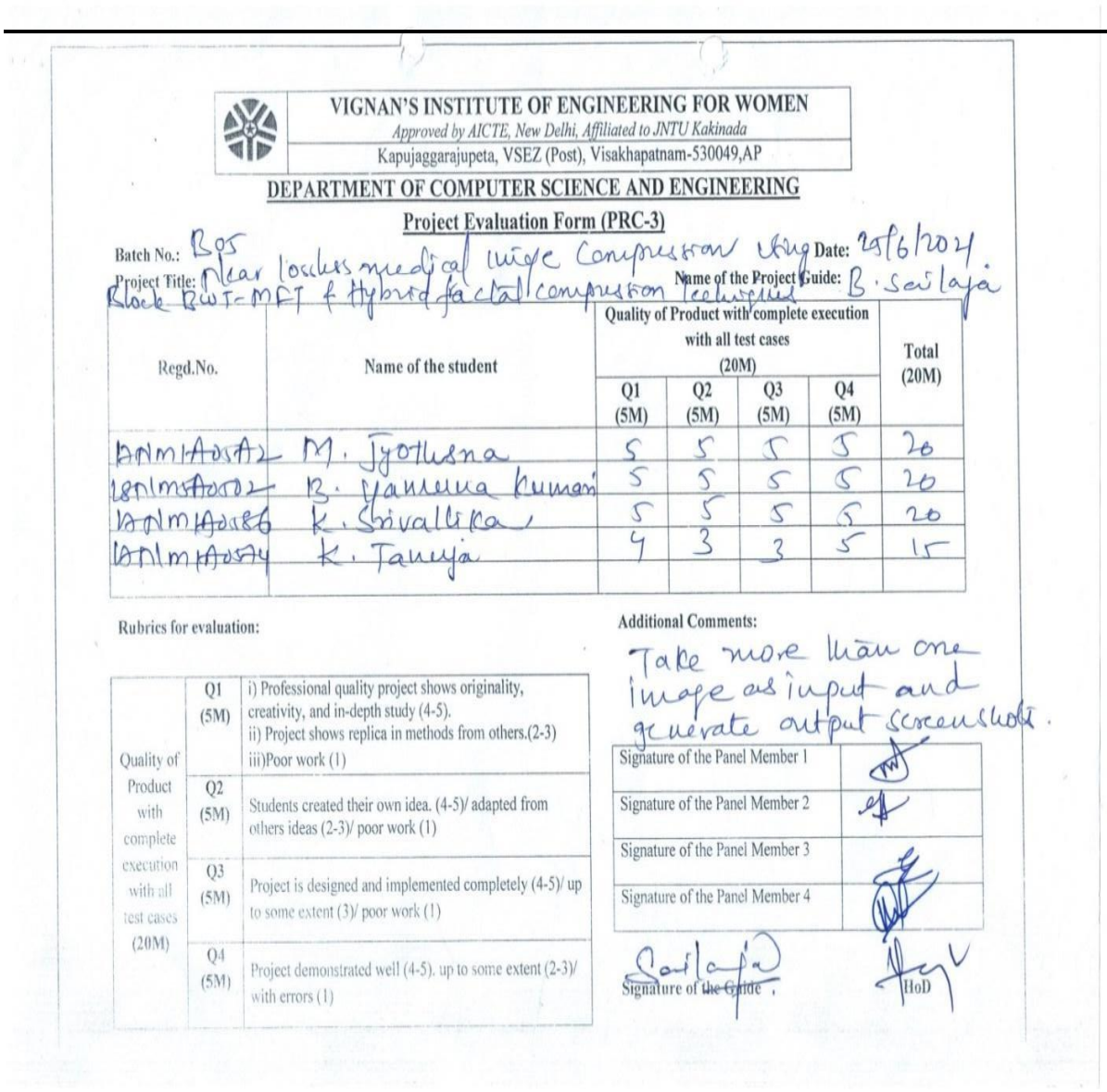
Process and Improvement (10M)	PI1 (2M)	Project Process Completion: All modules(2), Partial(1)
	PI2 (2M)	Students answered All (2)/partially (1) questions posed.
	PI3 (2M)	Student sought out feedback, made appropriate improvements, and can explain creation process (2)/partial Improvements and explain process (1).
	PI4 (2M)	Student shows detailed understanding of information, demonstrates significant thoughtfulness (especially in the reflection), and uses information at a high (2)/ low (1) level.
	PI5 (2M)	Reflection is thoroughly (2)/partially (1) revised.
Project Management (10M)	PM1 (4M)	Student met all deadlines in time (4)/ Student met 2 days after deadlines(3)/ Student met 4 days after deadlines(2)/ Student met 1week after deadlines(1)
	PM2 (4M)	Learning and time use are precisely (4)/ moderately (3)/low (2) documented.
	PM3 (2M)	Student effectively communicated project progress with guide Frequently (2)/ very often (1).

Additional Comments:
The Code should include all the movements of eye to track its gaze.

Signature of the Panel Member 1	
Signature of the Panel Member 2	
Signature of the Panel Member 3	
Signature of the Panel Member 4	

Signature of the Guide HoD

Figure B.2.2.3.h: PRC 2 Project Evaluation



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Project Evaluation Form (PRC-3)

Batch No.: B05 Date: 25/6/2024.

Project Title: Near lossless medical image Compression using Block BWT-MFT & Hybrid fractal compression Technique Name of the Project Guide: B. Sailaja

Regd.No.	Name of the student	Quality of Product with complete execution with all test cases (20M)				Total (20M)
		Q1 (5M)	Q2 (5M)	Q3 (5M)	Q4 (5M)	
[illegible]	M. Jyothsna	5	5	5	5	20
[illegible]	B. Yaswanth Kumar	5	5	5	5	20
[illegible]	K. Shivallika	5	5	5	5	20
[illegible]	K. Tanuja	4	3	3	5	15

Rubrics for evaluation:

Quality of Product with complete execution with all test cases (20M)	Q1 (5M)	i) Professional quality project shows originality, creativity, and in-depth study (4-5). ii) Project shows replica in methods from others.(2-3) iii)Poor work (1)
	Q2 (5M)	Students created their own idea. (4-5)/ adapted from others ideas (2-3)/ poor work (1)
	Q3 (5M)	Project is designed and implemented completely (4-5)/ up to some extent (3)/ poor work (1)
	Q4 (5M)	Project demonstrated well (4-5). up to some extent (2-3)/ with errors (1)

Additional Comments:

Take more than one image as input and generate output screenshots.

Signature of the Panel Member 1	
Signature of the Panel Member 2	
Signature of the Panel Member 3	
Signature of the Panel Member 4	

Signature of the Guide

HoD

Figure B.2.2.3.i: PRC 3 Project Evaluation

E. Quality of Completed Projects/Working Prototypes (5)

The projects quality is assessed by the PRC and few projects are identified as best projects depending on the domains meeting industry 4.0. The emerging areas include machine learning, deep learning, block chain, big data analytics, cloud computing, computer vision and Internet of things. The details of the best three students Project work are given below:

Sl. No.	Project Title	Student Name	Guide Name	Relevance to POs &PSOs	Domain
1.	Eye Gaze tracking system	A.Sri Rekha Ch. Madhulika G. Manasa Ch.Virinchita J G K S S Sowmya	Mrs.N.Sunitha	PO1-PO7, PO10-PO12 PSO2	Artificial Intelligence
2.	Real-Time Stress Detection Using CNN	L. Sruthi K Vijaya Varshini K. Divya N. Sruthii M Shailaja Preethi	Mr.A.Srinivas	PO1-PO7, PO10-PO12 PSO2	Deep Learning
3.	Underwater Image Enhancement	T Leela Bhavani Sai Rakshitha P P.Swathi P.Anusha	Ms.D.Ramya	PO1-PO7, PO10-PO12 PSO1	Deep Learning

Table B.2.2.3.h: Best projects in 2017 admitted batch

Sl. No.	Project Title	Student Name	Guide Name	Relevance to POs &PSOs	Domain
1.	Detection of money laundering in online social networks	D.Sirisha G. Rupa Santhi Sree K. Mary Prathyusha A. Sowmya Sri	Mrs. Rahimunnisa	PO1-PO7, PO10-PO12 PSO1	Data Mining
2.	Replenish security through CARP technology	V.Pratyusha V.Keerthi Sahithi.T P.Anusha M.Roshini	Ms. Rita Roy	PO1-PO7, PO10-PO12 PSO1	Network Security
3.	Food calorie estimation and auto bill generation for grocery products using yolo object detection.	A.Anusha M. Keerthi R. LochanaSaimamba M.Kasturi	Ms. Y. VineelaSravya	PO1-PO7, PO10-PO12 PSO1	Convolutiona l Neural Networks

Table B.2.2.3.i: Best projects in 2016 admitted batch

Sl. No.	Project Title	Name	Guide Name	Relevance to POs &PSOs	Domain
1	Implementing an insurance application using Blockchain	Ms. V. Suma Ms. P. Geethanjali Ms. M. Nikhila Ms. P. Hema Bharathi	Dr. P. Vijaya Bharati	PO1-PO7, PO10-PO12 PSO1	Blockchain
2	Fault diagnosis of rotating machine using one dimensional convolution neural networks	Ms. T. Sharmila Ms. P. Uma Padmaja Ms. M. Rajeswari Ms.N.V.Aruna Ramya	Mr. L. Bhupathi Rao	PO1-PO7, PO10-PO12 PSO1	Deep Learning
3	Face detection and age recognition using Viola Jones algorithm	Ms. Y.L. Sowjanya Ms. R. Mounika Ms. M. Gayathri Ms. D. Ramya Sree	Mr. R. Ravi	PO1-PO7, PO10-PO12 PSO2	Computer Vision

Table B.2.2.3.j: Best projects in 2015 admitted batch

Sl. No.	Project Title	Name	Guide Name	Relevance to POs &PSOs	Domain
1	Abandoned bag detection in video surveillance using image processing	Ms.L.Hemalatha Ms.V.Renuka Ms.V.Pavani Ms.S.Santhoshi	Mr.I.Raju	PO1-PO7, PO10-PO12 PSO1	Image Processing
2	A Real time face recognition system using deep learning	Ms.S.Puspalatha Ms.G.Sowmya Ms.N.Bhavani Ms.P.Sridharni	Mr.K. Mariya Babu	PO1-PO7, PO10-PO12 PSO1	Deep Learning
3	Secure evaluation of student data using map reduce in cloud	Ms.M.R.L.Bhavani Ms. RizwanaSherin Ms.M. LasyaRavali Ms.M. Mamata	Ms.D. Chandrika	PO1-PO7, PO10-PO12 PSO1	Cloud Computing

Table B.2.2.3.k: Best projects in 2014 Admitted Batch

F. Evidences of Papers Published/Awards Received by Projects, etc.

CAY (2020-21)

1. Gantla Joshna, A V K Pravallika, Jakkuva Manasa, Isukapatla Ramya, Challa Renuka Devi published paper entitled "**Covid-19 Epidemic Analysis Using Machine Learning**" in International Journal of Innovations in Engineering and Technology, in Volume 19, Issue 4, July 2021(ISSN:2319-105)

2. G Sai Chandana, Deredla Vineetha Sri, Gavva Rani, B L A Kiranmai published paper entitled "**Elliptical Curve Cryptography for Data Confidentiality with Output Feedback Mode**" in Journal of Emerging Technologies and Innovative Research (JETIR) in Volume 8, Issue 7, July 2021 (ISSN: 2349-5162).

3. A S Geetha, Bokka Sri Sai Manasa, Dunna Sindhu, Ch Sai Likhitapaper entitled "**Application for Generating Image Caption Using CNN model** "in Mukt Shabd Journal in Volume X, Issue VII, July 2021 (ISSN: 2347-3150).

4. Gorusu Sravani, E Harsha Vardhini, Dwarapudi Joshitha, Dadala Charanya published paper entitled "**Machine Learning Model for Prediction of Post Graduate Admissions**" in Journal of Emerging Technologies and Innovative Research (JETIR) in Volume 8, Issue 7, July 2021 (ISSN: 2349-5162).

5. G Ananda Bhavani, Behara Anusha, Chintada Alekhya, G Poojitha Sri Lakshmi published paper entitled "**An Expertise Machine Learning Model to Predict the Heart Failure in Patients**" in Juni Khyat ,in Volume 11, Issue 7,July 2021 (ISSN 2278-4632).

6. Choppa Nandini, Basana Harshini, Bonam Roshini published paper entitled "**Relative Envision to Prognosis the Rarest Parkinson's Disease Using Machine Learning Techniques**", in Juni Khyat ,in Volume 11, Issue 7,July 2021 (ISSN 2278-4632).

7. Joba Kumari, D Priya, Anga Deepika, G Nagamani published paper entitled "**Calculate the Propinquity for Human Faces**" in Muki Shabd Journal in Volume X Issue VII, July 2021, (ISSN: 2347-3150).

8. Lanka Sruthi, K Vijaya Varshini, Kalla Divya, Nukala Sruthi, M Shailaja Preethi published paper entitled "**Real-time Stress Detection using CNN**" in International Journal of Engineering Research in Computer Science and Engineering in Volume 8 Issue 7, July 2021, (ISSN: 2394-2320)

9. N Swarupa, M Padmaja, Kalepu Sreeja, N Ramadevi, Kolli Sowjanya published paper entitled "**Loan Application Analysis Using Machine Learning**" in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

10. M Jyothsna, B Yamuna Kumari, K Srivallika, K Tanuja published paper entitled "**Near Lossless Medical Image Compression Using Block BWT-MTF and Hybrid Fractal**

Compression Techniques" in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

11. K Vennela, K Divya, N Anusha, K Lavanya published paper entitled" **Fire and Smoke Recognition Using Deep Learning** " in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

12. K Joga Sandhya, Palem Sushma, Natti Poornima, M R L Charanmai published paper " **Image Haze Removal Using Dark Channel Prior** " in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

13. Kalaga Sahitya, Karaka Jyoshna, K Satya Priya, Karanam Pooja published paper entitled **"Traffic Sign Recognition with R-CNN"** in International Journal of Creative Research Thoughts in Volume 8, Issue 7, July 2021, (ISSN: 2320-2882).

14. Kola Lavanya, Nallana Poojitha, Kundrapu Pavani, Konda Basheera published paper entitled "**Secure File Storage in Cloud using Hybrid cryptography"** in Juni khyat journal in Volume-11 Issue-7, July 2021, (ISSN: 2278-4632).

15. Maddi Annapurna, K Leelavathi, M Uma Maheswari, Kambala Hema, published paper entitled "**Marketing Channel Attribution with Markov Chains in Python"** in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

16. M Saimounica, N Sai Sandhya, Kosuri Lavanya, A Hemalatha published paper entitled "**Triple Level User Authentication with Confidentiality**" in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

17. K Hema Sri, M Sai Bhavana, L Trisha, K Poorna published paper entitled "**Farmer Eco-Marketing System Using Blockchain Technology**" in Juni khyat journal in Volume-11 Issue-7, July 2021, (ISSN: 2278-4632).

18. Nupur Das, P Gnaneswari, M D Zenifer, Kandrika Soumya published paper entitled **"Location Based Routing for Ad hoc Mobile Networks"** in International Journal of All Research Education and Scientific Methods Journal in Volume 9 Issue 7, July 2021, (ISSN: 2455-6211).

19. Palli Vasanthi, K Uma Sai Sirisha, K Hari Swetha, M Ratna Shivani published paper entitled "**Image Depixelizer**" in international journal of innovations in Engineering and Technology Journal in Volume 19 Issue 4, July 2021, (ISSN: 2319-1058).

20. M V Sai Pravallika, Kallada Yamuna, N Padma, Karada Pooja published paper entitled **"Image Caption Generator"** in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

21. R Bharathi Jyothi, Pappu Sri Sai Keerthi, Srisailapu Sireesha, Pulidindi Krishna Priya, Seeramreddi Namratha published paper entitled "**Accuracy Analysis using Machine Learning Classifier for Hardware Trojan Detection**" in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

22. Rayudu L V Srujana, Sanapathi Bhagyasri, S Naga Laxmi Yamini, Vasireddy Swapnika published paper entitled "**Music Genre Classification Using Deep Learning**" in International Journal of All Research Education and Scientific Methods, Volume 9, Issue 7, July 2021, (ISSN: 2455-6211)

23. Pureti Likhitha, Ponnada Bhavya, Sanapathi Sravani, Paricharla Lahari, Y Bheemarasetti published paper entitled "**Sentiment Analysis Using Deep Neural Network on Movie Reviews**" in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

24. P Rama Lakshmi, Penaganti Devi, Vasupilli Harini, V Kalpana, P Jaya Chandrika published paper entitled "**Helmet and License Plate Detection of Two Wheelers Using Open CV and YOLOV5**" in International Journal of Research and Analytical Reviews in Volume 8 Issue 3, July 2021, (ISSN: 2348-1269).

25. Rongali Tanuja, S Sandhya Rani, Pusapati Revathi, V Kusumanjali, S Vijayalaxmi published paper entitled "**Social Distance Detection Using Deep Learning**" in Juni khyat journal in Volume-11 Issue-7, July 2021, (ISSN: 2278-4632).

26. Chinta Meghana, P Sri Jyothi Meghana, Sonti Jahanavi, Pamula Gayathri published paper entitled "**Malaria Detection using Blood Smear Images**" in Juni khyat journal in Volume-11 Issue-7, July 2021, (ISSN: 2278-4632).

27. Ramireddi Chandini, Sanam Rupa Sri, N Krishna Veni, Sammingi Nirmala published paper entitled "**Stock Price Prediction Using Machine Learning using LSTM and Linear Regression**" in International Journal of Creative Research Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2320-2882).

28. T Leela Bhavani, Sai Rakshitha P, Polaki Swathi, Pasala Anusha published paper entitled "**Underwater Image Enhancement**" in International Journal of Research and Analytical Reviews in Volume 8 Issue 3, July 2021, (ISSN: 2348-1269).

29. Surada Haritha, P Teja Sai Sree, M Priya Mounika, S Sri Varshini published paper entitled "**Design An Analysis of Resume Screening Using Natural Language Processing**" in Muki Shabd Journal in Volume X Issue VII, July 2021, (ISSN: 2347-3150).

30. Nagala Chandini, Pilla Mounika, P V Satya Likhitha, Vedula Shaankari published paper entitled "**Personality Prediction From Social Media Posts**" in International Journal of All Research Education and Scientific Methods Thoughts in Volume 9, Issue 7, July 2021, (ISSN: 2455-6211).

31. Gali Tejaswini, Ch Monisha, Baliboyena Divya, Dulam Layasree published paper entitled **"Android Malware Detection Using Machine Learning"** in International Journal of All Research Education and Scientific Methods Thoughts in Volume 9, Issue 8, August 2021, (ISSN: 2455-6211).

32. Anne Sri Rekha, Chongali Madhulika, Gavireddy Manasa, Chevveti Virinchita, J G K S S Sowmya published paper entitled **"Eye Gaze Tracking System"** in International Journal of All Research Education and Scientific Methods Thoughts in Volume 9, Issue 8, August 2021, (ISSN: 2455-6211).

33. Ayithi Deepika, Adapa Sai Santhoshi, Dadi Sowmya, G S Sirisha published paper entitled **"Copy Right Protection of Digital Images with Digital Watermark"** in International Journal of Creative Research Thoughts in Volume 9, Issue 8, August 2021, (ISSN: 2320-2882).

34. Gunna Madhusri, Boddeda Utteja, Borra Sunitha, B C N Sai Sarada published paper entitled **"Glaucoma Detection Using Fundus Images Through Deep Learning"** in International Journal of All Research Education and Scientific Methods Thoughts in Volume 9, Issue 8, August 2021, (ISSN: 2455-6211).

35. Jerripothula Nadiya, Arnipalli Shivani, Boyidi Supriya, E Sirisha Rani published paper entitled **"Authentication of Credit Card Using Face Recognition"** in Muki Shabd Journal in Volume XI, Issue V, August 2021, (ISSN: 2347-3150).

36. Bodda Akhila, Gompa Nikhila, Addala Lakshmi, Gullipalli Jahnavi published paper entitled **"Signature Verification Using Image processing and Neural Network"** in International Journal of Creative Research Thoughts in Volume 9, Issue 8, August 2021, (ISSN: 2320-2882).

37. J Sai Harshitha, M Rithwikaa, Kalla Pavani, K Ch Chowdary, N S S Krishna published paper entitled **"Automated Detection of covid-19 cases using Deep Neural Networks with X-Ray images"** in International Journal of Creative Research Thoughts in Volume 9, Issue 8, August 2021, (ISSN: 2320-2882).

38. Silaparasetty Sushma, V Vijaya Lakshmi, Y D Naga Sai Bhanusri, Tekkali Roopa Sravani, Singampalli Yamini published paper entitled **"Fake User Detection Using Machine Learning Techniques"** in Muki Shabd Journal in Volume XI, Issue V, August 2021, (ISSN: 2347-3150).

39. Talluri Meghana, T J N Suryakumari, Pothula Jahnavi, N K S S Priyanka published paper entitled **"Image Steganography using Python"** in International Journal of Research and Analytical Reviews in Volume 8 Issue 4, August 2021, (ISSN: 2348-1269).

40. Vurukuti Mounica, Sappa Sandhya Rani, Veturu Ramyalakshmi, Rayapureddy Anusha published paper entitled **"Credit Card Fraud Detection Using Machine Learning"** in

International Journal of Creative Research Thoughts in Volume 9, Issue 8, August 2021, (ISSN: 2320-2882).

41. Sivala Deepika, V D L Rajeswari, R Yamini Varma, Singampalli Ramya published paper entitled **"Secure Data Transmission Using Hybrid Cryptography"** in Journal of Emerging Technologies and Innovative Research in Volume 8, Issue 8, August 2021, (ISSN: 2349-5162).

CAYm1 (2019-20):

1. P.Soumya, N. Bhagya Lakshmi, P. Jyothi Priya, Y. Sriya published paper entitled "**An Efficient Transaction Memory Storage Management Model for Images**" in MuktShabd Journal in Volume IX Issue V, MAY/2020, Pages 1116-1118 (ISSN: 2347-3150).

2. G.Sailaja, B. Niharika, V. Mani Chandana, V.Bhavya Sri published paper entitled "**Distributed Metadata Management for Large Storage Systems using Hierarchical Bloom Filter Arrays**" in Parishodh Journal in Volume IX Issue III, MARCH/2020, Pages 7531-7535 (ISSN: 2347-6648).

3. Ch. Sri Lalitha Navya Bharathi, Ch.Ramya, K.Chinni, K.SaiPraneethapublished paper entitled "**RETRIEVAL OF FEATURED IMAGES USING FACE DETECTION** " inMuktShabd Journal in Volume IX Issue V, MAY/2020, Pages 2485-2495 (ISSN: 2347-3150).

4. U.Indhira, G.Kusuma, K. Hima Bindu**,** Ch. Sai Rakshithapublished paper entitled "**Smart Rendering News Article Reader**" in International Journal of Creative Research Thoughts in Volume 8, Issue 4 April 2020 Pages 2412-2421 (ISSN: 2320-2882).

5. S Sravya, P Yamini, Y Vasantha, P Pooja published paper entitled "**Fake News Detection and Comparison Using Machine Learning Algorithms**" in International Journal of Research and Analytical Reviews (IJRAR), April 2020, Volume 7, Issue 2(ISSN 2349-5138).

6. G Aishwarya, B Niharika, B Suryateja, B harika, published paper entitled "**Enhancing Advance Driver Assistence System by Detecting Weather Conditions Using Machine Learning**", in International Journal of Research and Analytical Reviews (IJRAR), April 2020, Volume 7, Issue 2(ISSN 2349-5138).

7. A. Soundarya , K.Bhavana , D.Yamuna , Ahmed Unnisapublished paper entitled "**Crack Detection on Concrete Surfaces using Image Processing**" in International Journal of Creative

Research Thoughts (IJCRT) Journal in Volume VIII Issue V, MAY/2020, Pages 2153-2158 (ISSN: 2320-2882).

8. M.Samyukta , N.Srianjini , T.Kusuma Sarika , Y.Harithapublished paper entitled "**A Secure Approach for Communication in Mobile Adhoc Networks**" in Advanced Science Letters Journal in Volume 26 Issue V, MAY/2020, Pages 59-63 (ISSN: 1936-6612).

9.K. Yogitha, J Swetha, G. Praharsha, ChakkaSwapna published paper entitled "**Offline Handwritten Character Recognition using Neural Network**" in MuktShabd Journal in Volume IX Issue IV, APR/2020, Pages 3890-3902 (ISSN: 2347-3150).

10. K.Usha, K.SriHarsha,S.Rajeswari,B.v.s.s. Madhuri published paper entitled "**Pneumonia detection by X-ray images using Deep learning through CNN**" in journal of XIAN University of architecture and technology Volume Xll, Issue V, MAY/2020, Pages 1884-1892 (ISSN: 1006-7930).

11. G.Anusha,S.Girija, Rajeswari Lakshmi,G.Hyndavi published paper entitled" **Reducing the Routing overhead in secure mobile ADHOC networks**" in international journal of engineering research and technology, volume 9 issue 05,may / 2020, pages 411-414(ISSN: 2278-0181).

12.M. Keerthi, M. Kasturi, R. LochanaSaimamba, A. Anusha published paper "**Food Calorie Estimation and Auto Bill Generation for Grocery Products using YOLO object Detection**" in Journal of Xi'an University of Architecture & Technology in Volume XII, Issue V, MAY/2020 ,Pages 1393-1399 (ISSN:1006-7930)

13. T.Jaya,R. Sravanisandhya, M. Pravallika, S. Snigtha published paper entitled **"Sentimental Analysis on GST using Polarity Classification" in** International Research Journal in Volume VII Issue V,MAY/2020,Pages 1908-1912 (ISSN: 2395-3150).

14. P.VeenaVaibhavi, P.GunaVarshini, P.Ankitha, P.Lavanya, published paper entitled "**Redundancy Control Data -Driven Approach for Cluster-Based Wireless Sensor Networks"** in International journal of Computer Science and TechnologyinVol-11 Issue-5, April-June 2020,Page No: 36-40 (ISSN : 2229-4333).

15. B. Jhansi Lakshmi, M. Roopa Sri, B. Sai Keerthi, G. Nithisha, G.Prashiptha, published paper entitled "**Ensemble clustering using dbscanandhdbscan"** in Journal of xi'an university of architecture &technologyin Vol-12 Issue-5, June 2020,Page No: 2779-2788 (ISSN No : 1006-7930).

16. G. Mounika, K. Anjali Reddy, Durga Bhavani, B. Shivani published paper entitled "**Object Match Swapping Detection of Facial Landmarks Using Local-based Information**" in The

International journal of analytical and experimental modal analysis in Volume XII, Issue IV, Apr-20, ISSN NO: 0886-9367.Page No : 398-407.

17. Atta Lavanya, Dasari Vandana Sri, Bera Sridevi, Jajula Poornima published paper entitled "**Age Estimation By Face Detection Using Convolution Neural Networks**" in Advanced Science Letters in Volume 26, Number 05, May-20, ISSN NO: 1936-7317,.Page No : 51-58.

18. AdariVindyaSree, SalapuDivya, Aratakatala Deepika Ratnanjali Devi, Manne Tirumala Akanksha published paper entitled **"A Novel Steganographic Technique to embed SST encrypted message using PGLM"** in MuktShabd Journal in Volume IX Issue V, MAY/2020, Pages 1864-1873 (ISSN: 2347-3150).

19. D.S. Haritha, K. VijayaLakshmi, D. Vasantha, P. Bhargavvi published paper entitled "Hiding of CAPTCHA in a colour image using FNP Algorithm" in MuktShabd Journal in Volume IX Issue V, MAY/2020, Pages 1313-1322 (ISSN: 2347-3150).

20. Ch.Deekshitha, K. Amrutha Sarvani, K. Sadhana, K. Chaturyapublished paper entitled **"A three Layer privacy preserving storage scheme for providing security"** in International Journal of Creative Research Thoughts in Volume VIII, Issue V, MAY/2020, Pages 1561-1570 (ISSN: 2320-28820)

21. V. Pratyusha, V. Keerthi, T. Sahithya, P. Anisha, M. Roshini published paper entitled "**Replinish Security Through Carp Technology**" in International journal of analytical and experimental modal analysis, Volume XII, Issue IV, April/2020,ISSN NO:0886-9367, Pages 408-413.

22. D. Jhansi Reddy, K. Divya Sri, G. Deva Harshini, M. Nikitha published paper entitled "**Secure Key- Deduplication using Convergent Key Encryption**" in Parishodh Journal, Volume IX, Issue III, March/2020, and ISSN NO:2347-6648, Pages 5551-5563.

23. G N S Lalitya, G K Sowmya, I Bhagyalakshmi, B SoniyaShynepublished paper entitled "**Multimedia Content Protection System For Cloud Storage**" in International Journal Of Research And Analytical Reviews(IJRAR)in Volume VII Issue II, MAY/2020, Pages 234-240 ((E-ISSN 2348-1269, P- ISSN 2349-5138)).

24. P.Harshitha, P.Manasa, R.Sai Priya, M.Joshnapublished paper entitled "**Traffic Sign Detection using Convolutional Neural Networks**" in International Journal Of Computer Science and Technology(IJCST)in Volume XI Issue II, APRIL-JUNE/2020, Pages 33-35 ((ISSN : 0976-8491 (Online) | ISSN : 2229-4333 (Print)).

25. Devupalli Sirisha, Gannu Rupa SanthiSree, Karanam Mary Prathyusha, Ande Sowmya Sri published paper entitled "**Detection of Money Laundering in Online Social Networks**" in MuktShabd Journal in Volume IX, Issue V, MAY/2020, Pages 1116-1118 (ISSN: 2347-3150).

26. P. Praveena, Vanamoju Prathyusha, M. Sailaja, Pooja Thamira Sri published paper entitled "**Information Retrieval on Document Streams using Relevance Feedback Algorithm**" in

International Research Journal of Engineering and Technology in Volume 7, Issue 4, April 2020, and ISSN NO: 2395-0072

27. G. Priyanka, G. Devi, G. Mounika, Beela Yajna Shireesha published paper entitled "**Attendance System Based on Face Recognition**" in MuktShabd Journal in Volume IX , Issue V, MAY/2020, ISSN: 2347-3150.

28. Sathvika R, Kavya Sree. K, Kalla Raga Deepika, Vennela Satya Priyanka published paper entitled" **Handwritten Digit Recognition and Text Conversion Using MNIST Dataset**" in International Journal of Creative Research Thoughts in Volume 8, Issue 5, May 2020, ISSN: 2320-2882.

29. E. Deepika, Bandaru Roshini Devi, B.Saritha, Basheerunnisa Begum published paper entitled "**Health monitoring system using rule based expert system**" in International Journal of Creative Research Thoughts in Volume 8, Issue 5, May 2020, ISSN: 2320-28820.

30. B Sai Sowmya, Chekuri Divya Sri, P Bala Rama Jyothi, Doki Meghana published paper entitled in "**Machine Learning Approach for Forecasting Crop Yield Based on Climatic Parameters**" in JAC: A Journal of Composition Theory in Volume VIII, Issue V, May 2020, ISSN: 0731-6755

Impact Analysis:

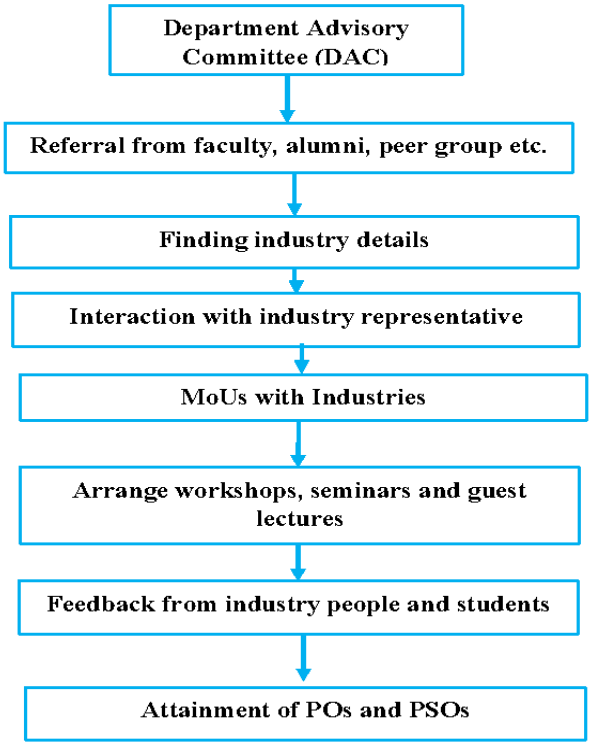
- Innovative ideas from the students excelling in creativity
- Skills or abilities of students improved
- Knowledge on various aspects of software project management was developed
- Improved teamwork spirit
- Few projects are developed for environmental and societal benefits.
- Presentation and communication skills are enhanced
- Improved the team spirit and confidential levels

2.2.4 Initiatives Related to Industry Interaction

An engineering student should be technically and globally competent to acquire the opportunities and should also attain the industrial needs. To meet these objectives, it is necessary to provide the students industry exposure and a platform to adapt the technological

changes. The department frequently takes necessary measures to fulfil the goals. The Procedure for Industry Interaction is shown in Figure: B.2.2.4a as listed below:

- Initiate tasks by inviting the industrial members for valuable seminars and conference.
- Invite professional HRs and conducted an interaction session personally.
- Encourage the students for industrial visits & training program.
- Interaction with different esteemed industrial experts like APSSDC, BARC, STEEL PLANT, SYMBIOSIS, BRAINO VISION, HPCL and etc.
- Conduct training sessions by industrial experts of latest technologies.
- Collect feedback from experts for progressive conduction of events.
- Feedback assessments are noted from students for further improvement.



FigureB.2.2.4a: Procedure for Industry Interaction

A. Industry Supported Laboratories

With the advent of globalization and opening up of Indian economy to outside world, competition among industries has become stiff. To solve their engineering problems, they look up now to engineering institutions. Similarly, there is an urgent need to prepare engineering students for jobs in multinational companies, by exposing them to newer technologies and engineering methodologies.

These objectives can only be achieved well by bridging the gap between industry and the academic institutions. Better interaction between technical institutions and industry is the need of the hour. This will have great bearing on the engineering curriculum, exposure of engineering students to industrial atmosphere and subsequent placement of young graduating engineers in industries across the country. The labs established at Vignan's Institute of Engineering for Women are detailed below:

I. Andhra Pradesh State Skill Development Corporation (APSSDC) Lab:

Andhra Pradesh State Skill Development Corporation (APSSDC) serves the task of providing skilled manpower as part of Government of Andhra Pradesh skill mission. AP government identified 100 institutes among 276 colleges across the state as their knowledge partners. APSSDC have established a Lab at Vignan's Institute of Engineering for Women to provide internships and training to students in the college. This will help in improving students' technical competency, soft skills and thus employability quotient.

Overview of APSSDC Lab:

The centre has been set up as a step to foster innovation and help instil the start-up and research culture in the students as well act as a catalyst of growth by making world class skilled professionals available to key growth sectors for the state and the country. The Lab is equipped with high end configured Acer Laptops in count of 36nos provide by APSSDC, and the licenses for the software are provided on Premise. The details of the lab are furnished in Table: B.2.2.4a and overview of lab in Figure: B.2.2.4b.

Infrastructure of the LAB	
Capacity of the lab	Capacity of the lab
No. of Laptops Installed	No. of Laptops Installed
Configuration	Configuration
License type	License type
UPS	UPS
Cabin Type	Cabin Type

Table B.2.2.4.a: APSSDC lab details

Figure B.2.2.4.b: Overview of APSSDC Lab

Objectives of APSSDC Lab:

As per the MoU with VIEW, APSSDC lab will extend the benefits to help the students' in providing training for 1000 students per year at minimal cost and created a platform to organize numerous workshops for students and faculty. The main objectives of the lab are:

- Promoting self-reliance
- Indigenization and technology upgrades
- Achieving economies of scale and improve developing capabilities of students
- Export the talent in-house at a rapid pace to meet the demands of the industry
- Job assured training (Multi Skill Training Program)

Utilization of APSSDC Lab:

There are 15 certification programs carried in APSSDC Lab from the day of its establishment. The lab utilization details are listed in Table B.2.2.4.b.

Sr.No.	Name of the certification course	Date(s)	% of participation	Relevance to POs/PSOs
1	Python Programming	24-05-2021 to 12-06-2021	41%	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO12. PSO1, PSO2.
2	Source code Management using GIT & GITHUB	11-06-2021 to 12-06-2021	41%	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO12. PSO1, PSO2.
3	Machine Learning using Python	08-02-2021 to 15-02-2021	65%	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO12. PSO1, PSO2.
4	Source code Management using GIT & GITHUB	08-02-2021 to 09-02-2021	2265%	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO11, PO12. PSO1, PSO2.
5	Data Analytics with Machine learning	16-02-2021 to 22-02-2021	100%	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO12. PSO1, PSO2.
6	Source code Management using GIT & GITHUB	20-02-2021 to 22-02-2021	100%	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO11, PO12. PSO1, PSO2.

Table B.2.2.4.b: Utilization details of APSSDC Lab for 2020-21

SL. No.	Certification Name	Date	% of participation	Relevance to POs and PSOs
1.	Source Code Management using GIT and GITHUB	08-02-2021 to 09-02-2021	88	PO1, PO5, PSO1
2.	Machine Learning Using Python	22-02-2021 to 27-02-2021	93	PO1, PO2, PO3, PO5 PSO1, PSO2
3.	MSTP (Multi Skill Training Program)	19-08-2019 to 15-02-2020	37	PO1, PO5, PO6 PO10, PO12. PSO1, PSO2
4.	Web Development using Python	19-08-2019 to 24-08-2019	100	PO1- PO5 PSO1, PSO2
5.	Google Android Developer Fundamental Phase-1	05-03-2020 to 07-03-2020	48	PO1, PO2, PO3, PO5, PO9. PSO1, PSO2.
6.	Progressive Web Apps	06-03-2020 to 07-03-2020	64	PO1, PO2, PO3, PO5, PO9. PSO1, PSO2.
7.	SCALE	26-07-2018 to	77	PO6, PO7,

		28-07-2018		PO9, PO10, PO12. PSO1
8.	Android Development Certification Phase - II	11-08-2018 to 16-08-2018	69	PO1-PO5 PO9. PSO1, PSO2.
9.	Google Android Fundamentals Phase-2	21-09-2018 to 24-09-2018	47	PO1, PO2, PO3, PO5, PO9. PSO1, PSO2.
10.	Gamification with AR & VR	26-12-2018 to 09-01-2019	67	PO1- PO5, PO9 PSO1, PSO2
11.	Udacity Nano Degree Program for Android Developer	18-01-2019 to 22-01-2019	65	PO1-PO5, PO9. PSO1, PSO2.
12.	Google Android Fundamentals Phase – I	07-12-2017 to 09-12-2017	76	PO1-PO4, PO5, PO9. PSO1, PSO2.
13.	Android Development Certification Phase - I	08-05-2018 to 14-05-2018	30	PO1-PO5 PO9. PSO1, PSO2.
14.	IoT Certification	08-05-2018 to 14-05-2018	88	PO1-PO5. PSO1, PSO2.
15.	AWS Skill Guru Workshop	30-05-2018 to 31-05-2018	33	PO1, PO2, PO5, PO12. PSO1, PSO2

Table B.2.2.4.c: Utilization details of APSSDC Lab for 2019-20

Effectiveness of APSSDC Lab:

- Students are benefitted with hands on experienced training workshops, projects and Nano Degrees of Udacity and Coursera.
- Training programs provide a great opportunity for students to expand their knowledge base and increase their efficiency and productivity.
- Students use their training to keep up with the latest advancements in technology.
- Training and development can help students to perform better in the campus placements as they become more skilled than before.
- Training can increase the quality of the student.
- Students work independently and require less supervision than before.
- Students can use their knowledge from the training to do projects and help other students.
- Students perform better with greater efficiency than before.
- More confidence is built among students and performed well.

II. Internet of Things (IoT) Lab

Texas Instruments, Bangalore conducted a national level Drishti online exam to our students to test their technical competency. Around 2300 students participated in this exam and more than 90% of them are qualified. As a token appreciation, Texas Instruments sponsored Teaching labs by procuring latest hardware related to IoT and microcontrollers.

The students of Computer Science Engineering enhance their knowledge towards developing of IoT applications by gaining knowledge on IoT domain within the campus and to stay ahead of their peers. IoT test bed is an open and developing ecosystem of edge devices, communication protocols, cloud-based platforms and application with a focus on cost-effective IoT technologies.

Overview of the Lab:

The lab is being utilized for implementing IoT based projects for real time applications. The lab is equipped with hardware kits and software required to carry out simulations. The lab is also equipped with IoT Development board self-starting learning kits and various sensors to make the students practically find a solution to real-time issues. The following are the Kits Sponsored by TI kits from STEPS Knowledge services Pvt. ltd will be used by Department of CSE for academic purpose:

Sl. No	Description of the hardware	Quantity
1	CC3200 Simple Link Wi-Fi Launch Pad	15
2	EK-TM4C729EXL	2
3	MSP 430 EXP G5 Launch Pad	8
4	RF Booster Pack CC110L	4
5	37 Sensors Kit	1
6	BBONE-BLACK-WIRELESS	2
7	MSP 430 EXP G5 Launch Pad	30
8	MSP-EXP 430F5529 Experimenter Board	2
9	RF Booster Pack CC110L	5
10	STEPS Experimenter Pack for MSP 430	10
11	MSP-EXP43OF5529LP	10

12	BOOST-DAC8568	2

Table B.2.2.4.d: List of Hardware available in the IoT Lab

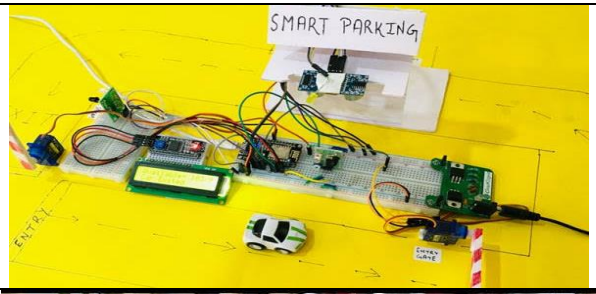
Objectives of the Lab:

- IoT lab is used to design and develop IoT based real-time projects and supporting in developing research activities.
- Develop projects that are cost effective and socially relevant.
- Students and faculty can utilize IoT test bed available in IoT lab to get hands-on exposure on IoT platform.
- To develop trained manpower through student projects in the field of IoT based application development.

Utilization of IoT Lab:

Students developed IoT based projects like Health Monitoring System, Smart Home Safety System and Smart Irrigation etc., to participate in various technical events. The projects developed in the IoT lab are listed in Table B.2.2.4.e.

CAY 2020-21

Sl. No.	Student details	Project Title	Description	Prototype	Relevance to POs and PSOs
1.	Students of III B Tech II Sem (2020-21) developed this prototype as their project work 18NM1A0590- M. H Sai Pushpa 19NM5A0501- A. Sravani 18NM1A05B4- P. Satya sowjanya 18NM1A05B7- P. Neeharika	Smart parking system	Smart Parking system consists of deployment of an IoT module that is used to monitor and signalize the state of availability of each single parking space		PO1 - PO12 PSO2
2	18NM Students of III B Tech II Sem (2020-21) developed this prototype as their project work 18NM1A0548 - G.Nandini 18NM1A0539 - G.Roja devi 18NM1A0505 - A.Deva divya 18NM1A0530- D.Prasanna Priya	Smart irrigation through IoT	It helps in conserving water by automatically providing water to the plants/field depending on the water requirements		PO1-PO12 PSO2
3	Students of II B Tech II Sem (2020-21) developed this prototype as their project work 19NM1A05B3 - N. Pooja Nagavalli 19NM1A0570 - K.Anusha 19NM1A05C0- P. Thanusree 19NM1A0586 - L.Sai laxmi	Realtime mask recognition	This prototype is used to detect the mask. The detection mechanism includes the servo motor functionality of opening the door upon recognition of mask and closes the door in case of absence of the mask.		PO1-PO12 PSO1

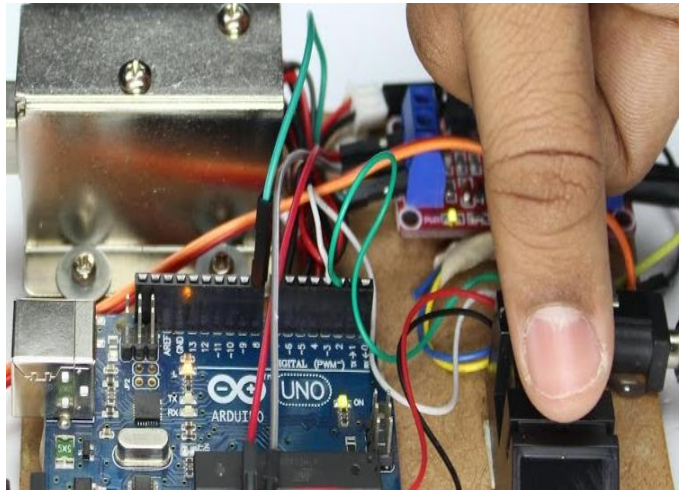
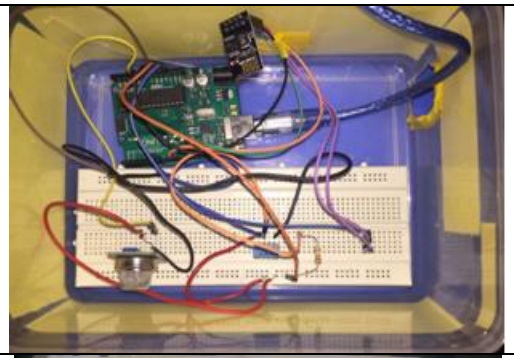
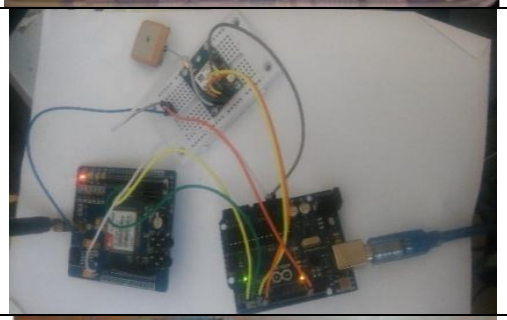
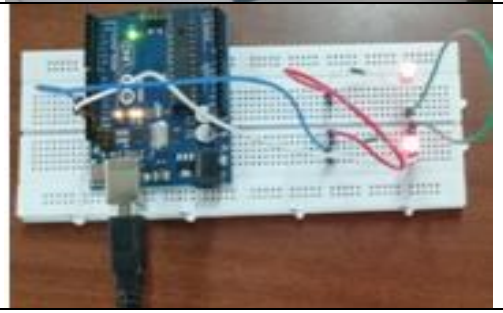
4	Students of III B Tech II Sem (2020-21) developed this prototype as their project work 17NM1A0575- K. Meghana 18NM1A05E4- S. Harika Damayanthi 19NM5A0515 S. Sandhya 19NM5A0517 V.Satya Sushma	Fringer print door lock control system	This system has fingerprint for biometric verification as it is one such thing which is unique to every individual and the use of fingerprint as the key to door locks can overcome the security problem of unauthorized people trespassing to our homes, shops, offices.Also, this system will not lead to problems like losing keys because we do not require carrying keys if this system is used instead of traditional locks.		PO1 -PO12 PSO2

Table B.2.2.4.e: Projects developed by students in Internet of Things (IoT) Lab in 2020-21

Sl. No.	Student details	Project Title	Description	Prototype	Relevance to POs and PSOs
1.	Students of IV B Tech II Sem (2017-18) developed this project as a part for Technical expo. 14NM1A0516- Ch.Karsihma 14NM1A0535- G.Lavanya 14NM1A0513-Ch.Anitha 14NM1A0529- D. Sneha	Smart Home Safety System	This model is used to identify gas leakage like LPG in domestic purpose. It sends an alarm and message to the registered mobile number whenever it senses gas leakage by using MQ2 sensor		PO1-PO12 PSO2
2	Students of IV B Tech II Sem (2018-19) developed this prototype as their project work 15NM1A0508-A.S.Sirisha 15NM1A0546-K.Madhumitha 15NM1A0514-B.Mounika 15NM1A0543-K.Likitha	Rakshana: Women Safety Alarm buzzer system using GPS.	This device raises alarm and sends message to nearby police station with location when the person press the button in need. In emergency, by pressing the button women can get quick assistance.		PO1-PO12 PSO2
3	Students of IV B Tech II Sem (2018-19) developed this prototype as their project work 15NM1A0570-M. Neelima 15NM1A05B8- V.Sharmila 15NM1A0571- M. Kusuma 15NM1A0562- K. Supriya	Automatic Street Light Control System	These street lights are used on road sides which glow when any object is detected in its proximity range and automatically turns off when the object passes away.		PO1-PO12 PSO2

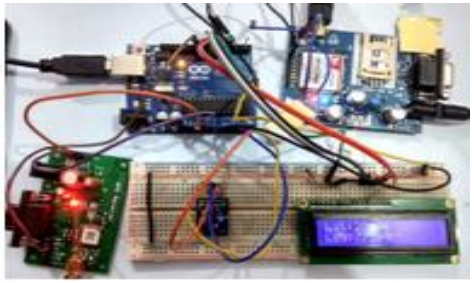
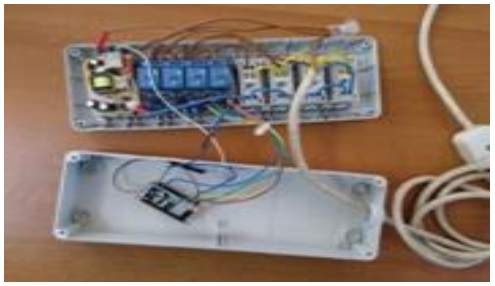
4	Students of IV B Tech II Sem (2018-19) developed this prototype as their project work 15NM1A0578-P. Sairajeevi 15NM1A0566- M. Sushmitha 15NM1A05A2- Sk. Karishma 15NM1A0569- M. Pavani	IoT Based Air Pollution Monitoring System Using Arduino	This prototype is used to find the pollution in air using IoT. A threshold value is fixed and the buzzer produces sound when the sensed air has PPM value more than the threshold and sends an email to the respective authority.		PO1-PO12 PSO2
5	Students of IV B Tech II Sem (2018-19) developed this prototype as their project work 16NM5A0504- G. Lakshmi 16NM1A05G1- K. Katyayani 16NM1A05H7- M.T.Akanksa 16NM1A05G3- K.DivyaSri	Road Accident Alert System .	This prototype is used to send information to the nearest police station whenever an accident happens. This prototype is designed to send the information by message using GSM and accident place by using GPS for quick rescue and saving lives		PO1-PO12 PSO2
6	Students of IV B Tech II Sem (2018-19) developed this prototype as their project work IV B Tech II Sem (2018-19) 15NM1A05E0- K. Gnanaani 16NM5A0509-P. N. Ratnm 15NM1A05C8-D. Geethika 15NM1A05F4- O.M. Keerthi	Industrial Smart Power Strip .	This prototype is used to maintain the switches or controls virtually by using Internet. The controls will be available in the form of mobile application which can be controlled at any time. To make the control ON and OFF on demand, this prototype can be used.		PO1-PO12 PSO2

Table B.2.2.4.f: Projects developed by students in Internet of Things (IoT) Lab

Effectiveness of IoT Lab:

- This approach helped students to quickly learn concepts in IoT.
- The learning is enjoyable as they effectively used various online discussion forums and tutorials.
- Although the projects suggested are of very basic nature but carrying out these give the confidence to take up difficult ones.
- Introduction of the laboratory in the sixth/seventh semester is the ideal as the prerequisite courses like microprocessors/micro controllers are already taught by this time.
- Students develop keen interest to explore various other interdisciplinary courses due to involvement of several varied technologies in IoT. Learning of students as a team improved with enhanced inter personnel communication skill.
- Professional ethics and ample opportunity for modern tool usage improved as students use open-source software and resources.
- IoT lab helped students to quickly learn concepts in IoT.
- The learning is enjoyable as they effectively used various online discussion forums and tutorials.
- Although the projects suggested are of very basic nature but carrying out these give the confidence to take up difficult ones.
- The IoT laboratory is ideal as the prerequisite courses like microprocessors/micro controllers are not included in the CSE curriculum.
- Students develop keen interest to explore various other interdisciplinary courses due to involvement of several varied technologies in IoT.
- Learning of students as a team improved with enhanced inter personnel communication skill.
- Professional ethics and ample opportunity for modern tool usage was improved as students use open-source software and resources.

B. Industry involvement in the program design and partial delivery of any regular courses to students (5)

- The Department Advisory Committee (DAC) consults experts from the Industry and Professors from JNTUK and Andhra University to always improve the students in all aspects.
- In addition, senior engineers from the industry are also consulted for upgrading the students to latest technologies.
- Workshops, Seminars and Guest Lectures are arranged to improve the student's skills.
- Involving industry experts in partial delivery of any regular courses for CSE students.
- MoUs with industries facilitates both the students and faculty an opportunity to understand the concepts in a better way. MOU's was done with industries to emphasize on:
- Internships
- Project Works for Students
- Industrial Visits
- Students specific training
- Faculty Development Programs

The List of Technical talks by Industry Experts is:

Sl. No.	Topic of Seminar / Guest Lecture / Workshop	Resource Person with Designation	Date(s)	% of Students	Relevance to POs, PSOs
1.	Seminar on Latest Testing methods	Mr. T. Suresh Kumar, Lead consultant, WIPRO	20-07-2021	48%	PO5,PO9 PSO1,PSO2
2.	Seminar on Deep Learning for Predictions in Emerging Currency Markets	Dr. C.DMalleswar, Former Director- NSTL	16-07-2021	70%	PO9,PO10,PO11, PO12 PSO2
3.	Seminar on Data and Business Intelligence	Dr. V. Bujanga Rao, NIAS	22-06-2021	85%	PSO2
4.	Guest Lecture on Cloud Virtualization	Dr.V.Viziasaradhi, Former Director of HPCL, Mumbai	17-05-2021	80%	PO3,PO4, PO5, PSO1

5.	Guest Lecture on Influence of AI in 5G Network	Dr.Archana Sharma, Head, PP and EMD, BARC, Mumbai	12-04-2021	70%	PO3, PO5, PSO1
6.	Guest Lecture on The Internet of Industrial Things (IIoT) & Information Systems	Dr.RishiVerma, Scientist-G, BARC, Atchutapuram, Visakhapatnam	07-04-2021	83%	PO3,PO4,PO5, PSO1, PSO2
7.	Guest Lecture on IoT and its application	Mr.T.Suresh Kumar Tankala, Lead Consultant, Wipro Limited, Visakhapatnam	18-02-2020	79%	PO3, PO5, PSO1,PSO2
8.	Seminar on Data Security and related issues	Dr. Archana Sharma, BARC	28-12-2020	31%	PO5, PSO1, PSO2
9.	Guest Lecture on Challenges in Cyber Security	Dr V.Bhujanga Rao, ISRO Chair Professor	23-12-2020	83%	PO3, PO4,PO5, PSO1
10.	Seminar on Cyber security trends, issues, and challenges	Dr. B.Subba Rao, Director - SAMEER	11-12-2020	96%	PO8, PSO1,PSO2
11.	Guest Lecture on AI enabled Software Defined Networking	Sri.VenkataRayuluBonam, Delivery Project Executive, IBM, Hyderabad.	17-11-2020	76%	PO3, PO5, PSO1
12.	Guest Lecture on Opportunities in Digital Era	Mr.Srikanth Nandigam, Head Project Manager, Excel Global Solutions InfoTech Pvt. Ltd. VSEZ, Vizag.	09-11-2020	77%	PO3,PO4, PSO1,PSO2
13.	Guest Lecture on Data Science & Analysis	Mr.Srikanth Nandigam Head Project Manager Excel Global Solutions InfoTech Pvt. Ltd. VSEZ	16-03-2020	68%	PO1,P02,P03, PO4,PO5,PSO1
14.	Guest Lecture onArt of Ethical Hacking	Sri.VenkataRayuluBonam, Delivery Project Executive IBM India (P) Ltd	13-03-2020	74%	PO1,P02,P03, PO4,PO5,PSO1
15.	Guest Lecture onMobile App Development using Android	Dr. V. ViziaSaradhi, Former Director, HPCL,	10-03-2020	87%	PO1,P02,P03, PO4 PSO1,PSO2
16.	Guest Lecture onArtificial Intelligence in Robotics	Dr V.Bhujanga Rao, ISRO Chair Professor	06-03-2020	85%	PO1,P02,P03, PO5,PSO1,PSO2
17.	Guest Lecture onCryptography	Dr. C.DMalleswar, Former Director- NSTL	26-02-2020	87%	PO1,P02,P03, PO4,PSO1
18.	Guest Lecture onSpatial Databases	Dr.RishiVerma Industrialist, PP & EMD, PEB-1, BARC.	11-01-2020	95%	PO1,P02,P03, PO4,PSO1

19.	Guest Lecture onBridging the Gap between the Students and Academia	Mr. T. Suresh Kumar, Lead consultant, WIPRO	26-12-2019	87%	PO6,PO7,P08, PO9,PO10,
20.	Guest Lecture onCareer Opportunities for IT and ITEs Sector	Dr.B.Subba Rao, Director - SAMEER	30.04.2019	43%	PO1,P02, P03,P04, PSO1
21.	Guest Lecture onIndustry Employability skills Training	Mr. T. Suresh Kumar, Lead consultant, WIPRO	26.4.2019	87%	PO6,P08, PO9,PO10, PSO2
22.	Guest Lecture onImportance of IoT in Marine Engineering	Sri, M.P. Dubey, Joint Director, STPI	11-01-2019	95%	P02,P03, PO4,PO5, PSO1,PSO2
23.	Workshop on AI and Soft Computing	Mr. T. Suresh Kumar, Lead consultant, WIPRO& Dr.B.Subba Rao, Program Director, MEIT	06-12-2018 to 08-12-2018	27%	PO1, PO2, PO3, PO5, PSO1, PSO2
24.	Workshop on Cyber Security	Sri.Venkata Rayulu Bonam, Delivery Project Executive, IBM, Hyd& Mr.Srikanth Nandigam Head Project Manager, Excel Global Solutions	28-11-2017 to 29-11-2017	65%	PO1, PO2, PO3, PO5, PO6, PSO1, PSO2
25.	Guest Lecture on Personality Development through stress management and positive thinking	Shri.M.P. Dubey, Joint Director, STPI	08-03-2017	90%	PO6,PO8,PO9,P O10, PO12

Table B.2.2.4.g: List of Technical talks by resource persons from Industry

In order to make our students industry ready, we take the support of various eminent industrialists. They are part of our institute governing body in decision making and framing policies. With the inputs from these members, we encourage our students to take part in industrial tours and training programs. The following is the list of various industrialists who are part of our institute governing body.

List of Industrialists associated with our institute:

Sl. No.	Name of the Industrialist with designation	Industry	Association with our Institute
1	**Dr. C.D. Malleswar** Former Director-NSTL, DRDO Dr Raja Ramanna Distinguished Fellow	Naval Science & Technological Laboratory (DRDO)	Chairman of Governing Body from June 2017 to October 2019

2	**Dr V.Bhujanga Rao** ISRO Chair Professor Former DG-DRDO- Delhi. Former Director-NSTL Vizag	National Institute of Advances Studies, IISc Campus, Bangalore.	Chairman of Governing Body from November 2019
3	**Dr. V. ViziaSaradhi,** Former Director	HPCL, Mumbai.	Governing Body Member from June 2017 to Oct 2019
4	**Sri.Venkata Rayulu Bonam,** Delivery Project Executive	IBM India (P) Ltd. Hyderabad	Governing Body Member from June 2017
5	**Mr. Srikanth Nandigam** Head Project Manager	Excel Global Solutions InfoTech Pvt. Ltd. VSEZ, Visakhapatnam	Governing Body Member from June 2017 to Oct ober 2019
6	**Dr. B.Subba Rao** Programe Director,	SAMEER-Centre for Electromagnetic Environmental Effects, Ministry of Electronics & Information Technology, Visakhapatnam	Governing Body Member from June 2017
7	**Dr.Archana Sharma** Outstanding Scientist Head, PP & EMD	Bhabha Atomic Research Centre (BARC), Mumbai.	Governing Body Member from November 2019
8	**Dr.Rishi Verma** Scientist-G	BARC, Atchutapuram Visakhapatnam.	Governing Body Member from November 2019
9	**Mr.Suresh Kumar Tankala** Lead Consultant	Wipro Limited, Visakhapatnam	Governing Body Member from November 2019

Table B.2.2.4.h: List of Industrialists associated with our institute

C. Impact analysis of industry institute interaction and actions taken thereof (5)

The Industry-Institute Interaction should be designed to run longer period for preparing the students, the manpower of world class in the field of science and technology by inculcating the various skills required by the industry, thereby contributing to the economic and social development at large.

Industry institute interaction is effect through:

- Guest lectures by industry experts
- Membership of industry experts in Institute Governing body
- Membership of industry experts in Department Advisory Committee
- Industrial visits by students
- Student Project works with involvement of industry

- Workshops /seminars /guest lecturers make the students gain knowledge on latest technologies and tools and they and practices.
- Industry built Labs with modern methodologies provides a practical environment to implement creativity in project work

Impact analysis:

- Establishment of Industry-Institute Partnership /interaction Cell.
- Organizing Workshops, conferences and symposia with joint participation of the faculty and the industries with students.
- Encouraging experts from industry to visit the college to deliver lectures.
- Participation of experts from industry in curriculum development, the same intimated to JNTUK.
- Professional consultancy by the faculty to industries.
- Joint research programmes and field studies by faculty and people from industries.
- Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest.
- Visits of students to industry in upgrading their skills.
- Visits of industry executives and practicing engineers to the Institute for seeing research work and laboratories, discussions and delivering lectures on industrial practices, trends and experiences.
- Memoranda of Understanding between the Institute and industries to bring the two sides emotionally and strategically closer.
- Human resource development programmes by the faculty for practicing engineers.
- B.Tech. projects work in industries under joint guidance of the faculty and experts from industry.
- Short-term assignment to students/faculty members in industries.
- Visiting faculty/professors from industries.
- Professorial Chairs sponsored by industries at the Institute.
- R&D Laboratories sponsored by industries at the Institute.
- Scholarships/fellowships instituted by industries at the Institute for students.
- Practical training of students in industries.

The list of MOUs with various companies is listed below in Table: B.2.2.4i:

S.No.	Company Name	MOU with Institution	Description	Date of MoU
1.	Techno Soft Solutions (Tss), Visakhapatnam	VIEW	Imparting training courses	09.01.2012
2.	Globarena Technologies(P) Ltd., Hyderabad	JNTUK	Centre of Excellence for e-resource Development and Deployment Project (CoEeRD)	06.03.2012
3.	Randstad India Limited, Chennai	VIEW	Providing Job placements	05.04.2013
4.	Coign Edu & It Services(P) Ltd., Hyderabad	VIEW	Imparting Training courses	03.07.2014
5.	M/S. CADD Box Solutions, Visakhapatnam	VIEW	Conducting CAD Training& Certification	19.07.2014
6.	Smart & Soft Solutions (Aptech Computer Education), Visakhapatnam	VIEW	Certification Training of Microsoft IT Courses	23.07.2014
7.	M/S.GRAFX IT Solutions Pvt. Ltd.,	VIEW	Skill Development Programme	27.08.2015
8.	Leadership 'Foundation', Srikakulam.	VIEW	Technology incubation Hub	05.01.2016
9.	Talentio Solutions India Pvt. Ltd., Hyderabad.	VIEW	Skill Enhancement Programme	17.02.2016
10.	Focus Academy For Career Enhancement (FACE), Coimbatore	VIEW	WIZARD IT	03.05.2016
11.	Apssdc, Vijayawada	VIEW	SDC hosting college in imparting Technical Skills.	09.08.2016
12.	Omni Rk Super Specialty Hospital	VIEW	Health Checkup/Treatment	29.06.2017
13.	Apssdc, Vijayawada	VIEW	To make qualitative improvements in imparting Technical Skills.	25.07.2017
14.	Brain O Vision	VIEW	Provides technical training for executing outsourced projects.	02.01.2018
15.	Apssdc, Vijayawada	VIEW	Skills Excellence Centre	29-03-2018

16.	Shamgar Software Solutions	VIEW	Provides Technical Training	02.01.2018
17.	Satvatinfosol Pvt. Ltd.,	VIEW	Infrastructure cum Facility	27.09.2018
18.	Apssdc, Vijayawada	VIEW	Skills Excellence Centre	13.03.2019
19.	Datapro Computers Pvt. Ltd.	VIEW	Empowering Skills	16.07.2019
20.	APSSDC, CM's Skill Excellence Center	VIEW	Implement Structured and pragmatic solutions towards skills development	29.07.2019
21.	NSE (NSEIT Limited), Mumbai	VIEW	Online Examination Service Provide Centre	28.08.2019
22.	NIT, Warangal Electronics and ICT Academy	VIEW	Organizes various programs to improve the quality of teaching quality of Education	30.08.2019
23.	PARAMARSH Scheme From UGC	VIEW	Quality Education to the next generation	26.08.2019
24.	Confederation Of Indian Industry (CII), Visakhapatnam	VIEW	Influence inspires and motivation of Students	16.07.2020
25.	Conduira Education & Training Services Pvt. Ltd.	VIEW	Provides e-learning solutions related to CRTP	23.12.2020
26.	Huawei Services (Hong Kong) Co., Limited	VIEW	Improving the quality of Talent Cultivation	01.12.2021

Table B.2.2.4.i: List of MOUs between VIEW and various companies

2.2.5 Initiatives Related to Industry Internship/Summer Training (15)

Assessment of PO & PSO attainment for the current academic year, feedback analysis from alumni and industrial experts helps us to improve the industry interaction process for the students. Every year the students are motivated to undergo industrial/internship training during semester break for a period of at least two weeks to get industrial exposure. The students with the support of the department approach the industries with a request for seeking training. The acknowledgment received by the industry will be forwarded to head of the institute to get

permission to undergo training. A report on the work carried out during the tenure will be provided by the students to the department after successful completion of training. Assessment on training is conducted either by a seminar or by viva-voce. The feedback analysis on the training is collected for taking necessary measures to improve the process.

A. Industrial training /tours for students (3)

Industrial visit is a self-interest and important in a career for a pursuing engineering degree students. It is a part of our institute schedule, mostly seen in professional degree courses. The main purpose of industrial visit is to understand the internal working process and ethics for the students practically. The department level of our institution had figure-out that the theoretical concept is not sufficient for a professional career, thus industrial visit/training is more important for practical knowledge to the students. This industrial visit/training provides an opportunity to gain the concepts practically via interaction, working process.

1. Andhra Pradesh MedTech Zone (AMTZ) - Visakhapatnam

Overview:

Andhra Pradesh MedTech Zone Limited (popularly known as **AMTZ)** is an enterprise under the Government of Andhra Pradesh, a 270 Acre zone, dedicated for Medical Device Manufacturing. The objective behind this **'One-Stop- Solution'** is not only to reduce the cost of manufacturing up to 40% or to just simplify the end-to- end operations but also to reduce the import dependency, which is presently around 75%.

Type of industry:

It offers 3D printing, designing and prototype services.

Planned or Non-planned activity:

It is a planned activity on 02-08-2019 seeking all the required permissions before the visit. Three faculties have accompanied the students.

Objectives:

- To provide students an insight regarding internal working of the company.
- To understand that theoretical knowledge is not enough for a successful professional career.

2. Tech-Mahindra Limited - Visakhapatnam

Overview:

Tech Mahindra Limited is an Indian multinational technology company, providing information technology (IT) and business process outsourcing (BPO) services. The company was ranked #5 in India's IT firms and overall #47 in Fortune India 500 list for 2019. Tech Mahindra has 973 active clients as of April 2020.

Type of industry:

Tech Mahindra is a software industry that includes businesses of development, maintenance and publication of software that are using different business models.

Planned or Non planned activity*:*

It is a planned activity on 15-12-2018 seeking all the required permissions before the visit. Five faculties have accompanied the students.

Objectives:

- To provide students an insight regarding internal working of the company.
- To understand that theoretical knowledge is not enough for a successful professional career

3. Symbiosys Technologies - Visakhapatnam

Overview:

Symbiosys is a leading CG/2D animation and VFX studio based in India having skilfully executed several international projects for marquee clients carving a strong footprint in the global animation industry. It is a lead by a highly experienced management team with a skilled and enthusiastic team of animators with sales and client management office in USA.

Type of industry:

It undertakes animation services, co-productions and also receives concepts from creators for co-development.

Planned or Non-planned activity:

It is a planned activity on 06-07-2017 seeking all the required permissions before the visit. Three faculties have accompanied the students.

Objectives:

- To understand the designing of concept art, characters, locations, story-boards, pre-viz, layouts and matte paint.
- To gain awareness on staging/blocking, rig animation, traditional animation, IB & CU and 2D Comp.

- To get the picture of 3D modeling/texturing/rigging, 3D layout & animation, lighting, SFX-simulations and rendering & comp.
- To familiarize about VFX & Stereo Roto/Paint, Match Moving, Environmental Effects, Composting, Stereo Composting, Motion Graphics and Rotomation.

The following table describes list of Industrial Visits:

Industrial Visit Details			
Date of Visit	**Place of visit**	**Number of students**	**Faculty Coordinator**
02-08-2019	Andhra Pradesh Med Tech Zone – Visakhapatnam	90	Mr. B.A. Ganesh
15-12-2018	Tech-Mahindra Limited - Visakhapatnam	130	Mr. I. Raju
06-07-2017	Symbiosys Technologies – Visakhapatnam	120	Mr. A.N. Suresh

Table B.2.2.5.a: Industrial Visit Details

Figure B.2.2.5.a: Industrial Visits at AMTZ

Figure B.2.2.5.b: Industrial Visit at Symbiosis Technologies

Figure B.2.2.5.c: Industrial Visit at Tech Mahindra

B. Industrial/internship/summer training of more than two weeks and post training assessment (4)

The students of CSE program are motivated to go for internship at various industries in the summer break of them of VI semester. The institute supports students by sanctioning permission to visit industries and gain practical knowledge. The students undergo internship training for a period of one week to a maximum of six months as long as the academic curriculum won't disturb. Due to Covid19 pandemic situation, most of the Internship tool place in online mode from the year 2020. After completion of the internship training assessments will be done on department level. After completion of Industry visit the report will be generated by faculty coordinator on training undergone by the students as a team or as an individual is to be submitted after successful completion of their industry visit. The training helps them to think innovatively in solving real time problems and implement as working models. The details of internship training are listed below:

INTERNSHIPS (2020-21)

Sl. No.	Company/Organization Name	No. of students Participated in Internships
1.	Internshala	29
2.	Tech Mahindra	03
3.	L-Cube Innovative Solutions	03
4.	Knowledge Solutions India	02
5.	Get Appointment	02
6.	Accenture	01
7.	Avasoft	01
8.	APSSDC	01
9.	Mycaptain	01
10.	Prepbytes	01
11.	Skillenza	01
12.	The Sparks Foundation	01
13.	Verzeo	01
14.	Volteo	01

Table B.2.2.5b: Consolidated table of Students Internships for 2020-21

Sl. No.	Regd No.	Name of the Student	Internship Title	Name of the Industry	Duration
1.	17NM1A0575	K. Meghana	Machine Learning with AI using Python	Knowledge Solutions India	6 Weeks
2.	18NM1A0569	K. Vagdevi	Campus ambassador internship program	Mycaptain	1 Month
3.	18NM1A0588	M.Pravallika	COVID 19 crowd funding	Hamari Pahchan NGO (Internshala)	1 Month
4.	17NM1A0517	B. Anusha	Data science and business analytics	GRIP At the Sparks Foundation (Internshala)	1 Month
5.	17NM1A0594	L.Sruthi	Skillenza hustler	SKILLENZA	9 Months

6.	18NM1A0530	Prasanna Priya	Digital marketing	Acuevers (Internshala)	1 Month
7.	17NM1A0517	Anusha Behara	Rotational internship program	The Sparks Foundation	1 Month
8.	17NM1A0501	A. Pravallika	Software trainee engineer	Avasoft	6 Months
9.	19NM1A05H1	G.V.Avanija Maha Lakshmi	Easiest way to earn pocket money and gain experience	Internshala	1 Month
10.	18NM1A0561	K.Kusumanjali	Easiest way to earn pocket money and gain experience	Internshala	1 Month
11.	17NM1A05H0	V. Shaankari	Intern - live project	Accenture	3 Months
12.	18NM1A0588	M.Pravallika	Internship and job preparation	Internshala	1Month
13.	19NM1A0583	K.P. Lakshmi	Web development	Internshala	6 Weeks
14.	18NM1A0518	B. Satya Sree	Block chain	Internshala	6 Weeks
15.	18NM1A0507	A. Kavya	Web development	Internshala	6 Weeks
16.	17NM1A05A9	N. Poojitha	Intern	Tech Mahindra	9 Months
17.	17NM1A05A1	M. Sai Bhavana	Intern	Tech Mahindra	9 Months
18.	17NM1A05A0	M. Rithwikaa	Intern	Tech Mahindra	9 Months
19.	17NM1A05H3	V. Vijaya Lakshmi	Associate technical consultant	Volteo	3 Months
20.	19NM1A05B3	N.Pooja Nagawali	Internshala student partnership	Internshala	10 Weeks
21.	17NM1A0517	B.Anusha	Software development	L-Cube Innovative Solutions	10 Days
22.	17NM1A0511	Aranapalli Shivani	Software development	L-Cube Innovative Solutions	10 Days
23.	17NM1A05E0	Rongala Bharathi Jyothi	Software development	L-Cube Innovative Solutions	10 Days
24.	19NM1A0568	K. Renuka	Programming with C and C++	Internshala	8 weeks
25.	19NM1A05A4	M. Sowmya	Programming with C and C++	Internshala	8 weeks
26.	19NM1A05B1	N. Niha	Programming with C and C++	Internshala	8 weeks
27.	19NM1A05H2	V. Venkata Sai Lavanya	Azure cloud computing	Verzeo	2 Months
28.	19NM1A05B0	N.Jhansi Rani	Programming with C and C++	Internshala	8 Weeks
29.	18NM1A05B0	P.Sowjanya	AWS	APSSDC	7 Weeks

30.	19NM1A0550	G.Divya	Machine learning	Internshala	6 Weeks
31.	19NM1A0568	K. Renuka	Web development	Internshala	6 Weeks
32.	19NM1A0590	M. Kalpana	Programming with C and C++	Internshala	8 Weeks
33.	19NM1A0599	M. Jahnavi	Programming with C and C++	Internshala	8 Weeks
34.	19NM1A0522	B.Sowjanya	Summer internship	Get Appointment	2 Weeks
35.	19NM1A0513	B. Pratheeka	Summer internship	Get Appointment	2 Weeks
36.	19NM1A0572	K. Leela Kumari	Programming with C and C++	Internshala	8 Weeks
37.	19NM1A0570	K. Anusha Pavani	Web development	Internshala	6 Weeks
38.	19NM1A0550	G.Divya	Internship and job preparation	Internshala	4 Weeks
39.	19NM1A0539	E.Soujanya	Programming with python	Internshala	6 Weeks
40.	18NM1A0599	M.Naga Sri Pravallika	Content writing	Team Everest (Internshala)	1 Month
41.	19NM1A05B8	P. Prameela	Internship and job preparation	Internshala	4 Weeks
42.	19NM5A0508	Vahazarunnisa Mohd	How to get Internship & 75% Scholarships on Microsoft and Google Certification	Knowledge Solutions India	1 Week
43.	18NM1A0596	M.Jyotsna Yalla Sri	Programming with python	Internshala	6 Weeks
44.	18NM1A0599	M.Naga Sri Pravallika	Graphic design	Internshala	6 Weeks
45.	19NM1A0599	M.Jahnavi	Internship and job preparation	Internshala	4 Weeks
46.	19NM1A05B5	P Bhavya Sri	Programming with C and C++	Internshala	8 weeks
47.	17NM1A0551	G.Ananda Bhavani	Campus business manager	PrepBytes	6 Months
48.	18NM1A0588	M.Pravallika	Web development	Internshala	6 Weeks

Table B.2.2.5c: Students Internship Details for the year 2020-21

INTERNSHIPS (2019-20)

S.No.	Company/Organization Name	No. of students Participated in Internships
1.	Accenture	01
2.	Appleton Innovations	02
3.	Apptronix	03
4.	Avishkar Tech Solutions	01
5.	Brain O Vision	02
6.	Codemania	02
7.	Coding Ninjas	01
8.	Elite Techno Group	01
9.	Engineers Hub	01
10.	Foxmula	01
11.	Geeksgod	01
12.	HMI Robo Coupler Engineering Services	01
13.	Internshala	20
14.	Kalakar	08
15.	Ludifu	03
16.	MAQ Software	01
17.	National Engineering Olympaid	01
18.	Shiksha Intern 2.0	01
19.	Smartbridge	11
20.	Spark Foundation	01
21.	Techern	01
22.	Techfest	01
23.	Tocmoc Solutions	13
24.	Tryst	01
25.	Verzeo	02
26.	Xane.Ai	01
27.	YESTech Solution	01

Table B.2.2.5d: Consolidated table of Students Internships for 2019-20

Sl. No	Roll No.	Name of the Student	Event Name	Name of the Industry	Date/ Duration
1.	17NM1A0553	G. Nikhila	Australia Discovery Program	Accenture	1 Month
2.	17NM1A0543	G. Nagamai	R&D	YES Tech Solution	1 Month
3.	17NM1A0568	Kalaga Sahitya	Content Writer	Geeks God	2 Months
4.	18NM1A0505	Deva Divya	Campus Coordinator	National Engineering Olympaid	1 Month
5.	18NM1A0517	B.Divya	Data Science	Avishkar Tech Solutions	10 Weeks

6.	17NM1A0522	B.Sri Sai Manasa	Web Development	Brain O Vision	1 Month
7.	17NM1A0534	D.Charanya	Web Development	Brain O Vision	1 Month
8.	18NM1A0523	Ch.Nandini	Predicting Life Expectancy using Ml	Smartbridge	1 Month
9.	19NM1A0501	A.Lakshmi	Machine Learning	Smartbridge	1 Month
10.	17NM1A0554	G.Sravani	Intelligent Customer Help Desk	Smartbridge	1 Month
11.	19NM1A05B3	Nethala Pooja Nagavalli	Programming with Python	Internshala	6 WEEKS
12.	18NM1A05B1	P.Anauskca Srinivas	Internet of Things	Apptronix	1 Week
13.	17NM1A05G0	S.Haritha	Internet of Things	Apptronix	1 Week
14.	17NM1A05G5	T.Poojitha	Internet of Things	Apptronix	1 Week
15.	17NM1A0597	Ratna Shivani	Machine Learning with Python	Smartbridge	1 Month
16.	17NM1A0514	B.Charishma Naga Sai Sarada	Artificial Intellgence	Techern	1 Month
17.	17NM1A0559	J.Manasa	Machine Learning with Python	Verzeo	2 Months
18.	17NM1A0551	G.A.Bhavani	Machine Learning	Smartbridge	1 MOnth
19.	18NM1A0523	Ch.Nandini	Machine Learning	Smartbridge	1 Month
20.	19NM1A0582	K.Komali	How to gain experience in Pocket Money in this Covid19 situation	Internshala	1 Month
21.	19NM1A0532	D.Sai Venkata Sree Varshini	How to gain experience in Pocket Money in this Covid19 situation	Internshala	1 Month
22.	19NM1A0585	Laveti Poojitha	How to gain experience in Pocket Money in this Covid19 situation	Internshala	1 Month
23.	19NM1A0563	Swanika Battula	How to gain experience in Pocket Money in this Covid19 situation	Internshala	1 Month
24.	19NM1A05B3	Nethala Pooja Nagavalli	Web Development	Internshala	6 WEEKS
25.	16NM1A05E8	Gangupam Prashipta	Cyber Securtiy & Ethical Hacking	Xane.Ai	6 WEEKS
26.	19NM1A0593	S.Lakshmi Prasanna	Easiest way to Earn Pocket Money and Gain Experience	Internshala	1 Month
27.	17NM1A05B5	Nukala Sruthi	Indian Road Safety Campagn	Internshala	1 Month
28.	17NM1A0594	L.Sruthi	Rotational Internship Program	Spark Foundation	1 Month
29.	17NM1A0562	J.Kumari	Android App Development	Internshala	6 Weeks

30.	17NM1A05B6	Nupur Das	Fron End Web Developer	Kalakar	2 Months
31.	17NM1A05B3	Nannpaneni Sai Sandhya	Fron End Web Developer	Kalakar	2 Months
32.	17NM1A0594	L.Sruthi	Fron End Web Developer	Kalakar	2 Months
33.	17NM1A0568	Kalaga Sahitya	Fron End Web Developer	Kalakar	2 Months
34.	18NM1A0588	M.Pravallika	Data Science	Internshala	6 Weeks
35.	17NM1A05B9	P.Vasanthi	Data Science	Internshala	6 Weeks
36.	17NM1A05G3	T.Meghana	Machine Learning	Internshala	6 Weeks
37.	18NM1A0551	P.Harshita	Fron End Web Developer	Kalakar	2 months
38.	17NM1A05B8	P.Sushma	Fron End Web Developer	Kalakar	2 Months
39.	17NM1A0567	Ms.K. Prathyusha	Fron End Web Developer	Kalakar	2 Months
40.	17NM1A05A3	Ms.G. Praharsha	Fron End Web Developer	Kalakar	2 Months
41.	18NM1A05G9	S.Nandini	Android App Development	Internshala	7 Weeks
42.	17NM1A0570	K.Supriya	Fundraising	Internshala	1 Month
43.	17NM1A05B6	Nupur Das	Marketing	Techfest	3 Days
44.	17NM1A0568	Kalaga Sahitya	Campus Ambassador Program	Tryst	6 WEEKS
45.	17NM1A05B3	N.Sai Sandhya	Campus Ambassador Program	Internshala	2 Months
46.	17NM1A0596	Annapurna Maddi	Mobile Appication Development	Internshala	1 Month
47.	17NM1A05E3	P.Sai Rakshitha	Robotics and Automation	Elite Techno Group	1 Week
48.	17NM1A05D4	P.Revathi	Internet of Things	Appleton Innovations	1 Week
49.	17NM1A05C6	P.V.S.Likhitha	Internet of Things	Appleton Innovations	1 Week
50.	17NM1A0568	K.Sahitya	Coding Ninjas	Coding Ninjas	8 Months
51.	17NM1A05B3	N.Sai Sandhya	Shikshas Learn and Intern 2.0	Shiksha Intern 2.0	1 Month
52.	16NM1A0504	A.S.Vaishnavi	Software Development	MAQ Software	3 Weeks
53.	17NM1A0594	L.Sruthi	Inversion Consultancy LLP	Foxmula	6 Weeks
54.	17NM1A0569	K. Sreeja	Artificial Intellgence	HMI Robo Coupler Engineering Services	6 Weeks
55.	17NM1A05G3	T.Meghana	Programming With Python	Internshala	10 Weeks
56.	16NM1A05G9	P.Harshita	Machine Learning	Codemania	2 Weeks

57.	16NM1A05D9	Ch.V.Pravallika	Machine Learning	Codemania	2 Weeks
58.	16NM1A0585	P.Neelaveni	Social Media Manager	Ludifu	2 Months
59.	16NM1A0574	M.Samyuktha	HR Manager	Ludifu	2 Months
60.	16NM1A0569	M.Sindhu	Social Media Manager	Ludifu	2 Months
61.	17NM1A05C7	P.Sri Jyothi Meghana	Industrial Problem Statement	Smartbridge	2 Days
62.	17NM1A05E3	P.Sai Rakshitha	Industrial Problem Statement	Smartbridge	2 Days
63.	17NM1A05E5	S.Rupasri	Problem Statement	Smartbridge	2 Days
64.	17NM1A05E8	S. Sandhyarani	Mobile Application Development	Engineers Hub	2 Weeks
65.	17NM1A0596	M.Annapurna	Web Development	Internshala	1 Month
66.	17NM1A05E3	P.Sai Rakshitha	Gender Detection	Smartbridge	3 Days
67.	17NM1A05C7	Petakamsetty Sri Jyothi Meghana	Gender Detection	Smartbridge	3 Days
68.	16NM1A05C9	Adari Vindya Sree	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
69.	17NM1A05H4	Mounika Vrukuti	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
70.	17NM5A0507	Majji Kasturi	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
71.	17NM1A05H5	Yelleti Yamini	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
72.	17NM1A05D2	Pulidindi Krishna Priya	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
73.	17NM1A05C1	Pappu Sri Sai Keerthi	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
74.	17NM1A05H1	Velaga Devi Lakshmi Rajeswari	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
75.	17NM1A05D7	Ramadala Keerthi	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
76.	17NM1A0506	Bhavana Alluri	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
77.	16NM1A05G1	Kommoju Katyayani	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
78.	16NM1A05C7	Aratakatla Deepika	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
79.	16NM1A05G3	K.Divya Sri	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month
80.	17NM1A0521	B.Utteja	Data Science	Internshala	6 Weeks
81.	17NM1A0530	Ch.Alekhya	Cyber Security & Ethical Hacking	Verzeo	2 Months
82.	17NM1A0551	G.A.Bhavani	Data Science	Internshala	6 Weeks
83.	16NM1A05E6	Galla Hyndavi	Cyber Securtiy & Ethical Hacking	Tocmoc Solutions	1 Month

Table: B.2.2.5e: Students Internship Details for the year for 2019-20

INTERNSHIPS 2018-19

Sl. NO.	Company/Organization Name	No. of students participated in Internships
1.	Vishakhapatnam Steel Plant	17
2.	ATOM Software Solutions	10
3.	HMI Robocoupler Engineering Services	08
4.	Smartbridge Collaborated With IBM	04
5.	Internshala	04
6.	Verzeo	02
7.	C2N IT Services	02
8.	Fluentgrid	01
9.	Bits Pilani	01
10.	The Sparks Foundation	01
11.	Entrersphere	01
12.	Engineering Giants	01
13.	Glean Solutions	01
14.	Supraja Technologies	01

Table B.2.2.5f: Consolidated table of Students Internships for 2018-19

Sl. No.	Roll No.	Name of the Student	Internship Title	Name of the Industry	Duration
1	15NM1A05B9	Vudatta Suma	IoT	ATOM Software Solutions	1 Month
2	15NM1A05C5	Dady Lalatha	IoT	ATOM Software Solutions	1 Month
3	15NM1A05C6	D Sai K L Shivani	IoT	ATOM Software Solutions	1 Month
4	15NM1A05D4	G. Hema Anasari	IoT	ATOM Software Solutions	1 Month
5	15NM1A05D6	G. Mahathi	IoT	ATOM Software Solutions	1 Month
6	15NM1A05D0	K. Gnanamayi	IoT	ATOM Software Solutions	1 Month
7	15NM1A05E8	M. Vasanthi	IoT	ATOM Software Solutions	1 Month
8	15NM1A05G1	P. Mahathi	IoT	ATOM Software Solutions	1 Month

9	15NM1A05H4	U. Yamini	IoT	ATOM Software Solutions	1 Month
10	15NM1A0557	Kondra Nikitha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	10 Days
11	15NM1A0566	Mallem Susmitha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Month
12	15NM1A0569	Mandarapu Pavani	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
13	15NM1A0573	Nadimpalli Sravya	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
14	15NM1A0576	Nudurupati Lalitha Nagasai	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Month
15	15NM1A0579	Paila Manoranjani	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
16	15NM1A0591	P V S S Mahima	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
17	15NM1A0593	R V S R N S Vaishnavi	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
18	15NM1A0598	Salapu Mohini Priyanka	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
19	15NM1A0599	S Kavya	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Month
20	15NM1A05B2	Telu Sai Renuka	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
21	15NM1A05B3	Tentu Anusha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Month
22	15NM1A05F0	Malla Srivalli	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
23	15NM1A05H3	Uppu Poojitha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
24	16NM1A0545	G.Devi	Programming with Python	Internshala	6 Weeks
25	16NM1A05F3	K. Lahari	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
26	16NM1A05G0	Kodali Sri Harsha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
27	16NM1A05H1	R. Lochana Sai Mamba	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
28	17NM1A0599	Md. Zenifer	Data Science using Python	HMI Robo Coupler Engineering Services	6 Weeks
29	17NM1A05G9	V.Swapnika	Mobile Application Development	BITS Pilani	3 Weeks
30	16NM1A05E0	Ch. Sai Rakshitha	Machine Learning	Verzeo	1 Month
31	16NM1A05E5	G.Nithisa	Machine Learning	Verzeo	1 Month
32	16NM1A0535	E.Deepika	Mobile Application Development	Entreesphere	2 Months
33	16NM1A0535	E.Deepika	Mobile Application Development	Internshala	4 Weeks

34	18NM1A0551	P.Harshita	Graduate Rotational Internship Program	The Sparks Foundation	2 Months
35	17NM1A05D6	Vurukuti Keerthi	Cyber Security	Supraja Technologies	2 Weeks
36	17NM1A05E2	Rudraraju Yamini Varma	Machine Learning with Python	IBM & Smartbridge	3 Weeks
37	17NM1A05C0	Pamula Gayathri	Data Science using Python	HMI Robo Coupler Engineering Services	6 Weeks
38	17NM1A05C7	Petakamsetty Sri Jyothi Meghana	Artificial Intelligence with Python & IBM Watson	IBM & Smartbridge	3 Weeks
39	17NM1A05C2	Paricharla Lahari	Power Utility – New Service Connection Module	FLUENT GRID	4 Weeks
40	17NM1A0579	Karaka Jyoshna	Blood Bank	HMI Robo Coupler Engineering Services	6 Weeks
41	17NM1A05E7	Sanapathi Sravani	Android App Development	HMI Robo Coupler Engineering Services	6 Weeks
42	17NM1A0591	Kundrapu Divya	Android App Development	HMI Robo Coupler Engineering Services	6 Weeks
43	17NM1A05G5	Poojitha Tokachichu	IoT	GLEAN Solutions	1 Month
44	17NM1A05E5	S.Rupasri	Artificial Intelligence with Python & IBM Watson	IBM & Smartbridge	2 Weeks
45	17NM1A05E3	P Sai Rakshitha	Artificial Intelligence with Python & IBM Watson	IBM & Smartbridge	3 Weeks
46	17NM1A05E7	Sanapathi Sravani	Python Programming	Engineering Gaints	1 Month
47	17NM1A05A3	Mojjada Uma Maheswari	Data Science using Python	HMI Robo Coupler Engineering Services	6 Weeks
48	17NM1A05A3	Mojjada Uma Maheswari	Detection of Cyberbullying using Machine Learning Techniques	HMI Robo Coupler Engineering Services	6 Weeks
49	17NM1A05E8	S.Sandhya Rani	Programming with Python	Internshala	2 Weeks
50	16NM1A0510	K. Lavanya	Web Application Development	ATOM Software Solutions	3 Weeks
51	16NM1A05B2	A Lakshmi	Data Science	Internshala	5 Weeks

52	16NM1A05F3	Karumajji Lahari	Employee Monitoring System with Screenshot Hacker	C2N IT Services Pvt. Ltd.	4 Weeks
53	16NM1A05G0	Kodali Sri Harsha	Employee Monitoring System with Screenshot Hacker	C2N IT Services Pvt. Ltd.	4 Weeks
54	17NM1A0574	Kammili Tanuja	Blood Bank (MAD)	HMI Robo Coupler Engineering Services	6 Weeks

Table: B.2.2.5g: Students Internship Details for the year for 2018-19

INTERNSHIPS 2017-18

S.NO.	Company/Organization Name	No. of students Participated in Internships
1.	Vishakhapatnam Steel Plant	39
2.	BHEL	07
3.	Supraja Technologies	01
4.	SPYRY	01

B.2.2.5h: Consolidated table of Students Internships for 2017-18

Sl.No.	Roll No.	Name of the Student	Internship Title	Name of the Industry	Duration
1.	14NM1A0563	Ch. Lohitha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
2.	14NM1A0585	Pithani Rohini	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
3.	14NM1A0591	R. Anitha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
4.	14NM1A0598	Theppala Radhika	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
5.	14NM1A05A0	Vadisila Aruna Kumari	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
6.	14NM1A05G5	Venigalla Tejaswini	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
7.	15NM1A0503	Andavarapu Divya	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
8.	15NM1A0505	Anjum Javeria	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
9.	15NM1A0509	Asi Kavya Reddy	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks

10.	15NM1A0518	Chindada Lakshmi Sree	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
11.	15NM1A0522	Dasari Kamaleshwari	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
12.	15NM1A0538	Issai Bhargavi	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
13.	15NM1A0540	Jinaga Himabindu	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
14.	15NM1A0557	Kondra Nikitha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
15.	15NM1A0561	Kukkadapu Pratyusha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
16.	15NM1A0563	Lagudu Anuradha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
17.	15NM1A0572	Munjeti Nikhila	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
18.	15NM1A0574	Nelluri Madhuri Sowjanya	Enterprise Resource Planning	Vishakhapatnam Steel Plant	3 Weeks
19.	15NM1A0575	Nethala Sowmya latha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
20.	15NM1A0577	Oruganti Naga Durga Vara Manisha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
21.	15NM1A0578	Pagadala Sai Rajeevi	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
22.	15NM1A0580	Pangi Hema Bharathi	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
23.	15NM1A0584	Pentakota Prathyusha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
24.	15NM1A0590	Pragada Sujatha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
25.	15NM1A0592	Puppala Niharika	Enterprise Resource Planning	Vishakhapatnam Steel Plant	3 Weeks
26.	15NM1A0597	Sai Bhavana Bonthu	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
27.	15NM1A05A1	Shaik Ashia Parvine	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
28.	15NM1A05A5	Siriyala Surekha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	3 Weeks
29.	15NM1A05A8	Srimantula Sai Lavanya	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
30.	15NM1A05A9	Suvvari Vineetha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	3 Weeks
31.	15NM1A05B5	Tikka Pooja Naga Mounika	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
32.	15NM1A05C0	Vysyaraju Priyanka	Enterprise Resource Planning	Vishakhapatnam Steel Plant	3 Weeks
33.	15NM1A05C7	Dantuluri Ramya Sree	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
34.	15NM1A05D5	Gondesi Gowthami	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week

35.	15NM1A05E1	Kolagani Laxmi Venkata Lahari	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
36.	15NM1A05E4	Kusuma Priya Kuchu	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
37.	15NM1A05E6	Lingampalli Divyasri	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
38.	15NM1A05F5	P Deekshita	Enterprise Resource Planning	Vishakhapatnam Steel Plant	2 Weeks
39.	15NM1A05H3	Uppu Poojitha	Enterprise Resource Planning	Vishakhapatnam Steel Plant	1 Week
40.	16NM1A05E8	G.Prashipta	Cyber Security	Supraja Technologies	3 Weeks
41.	15NM1A0570	M. Neelima	PLC/SCADA	BHEL	2 Weeks
42.	15NM1A05F4	S. Keerthi	PLC/SCADA	BHEL	2 Weeks
43.	15NM1A0591	T.V.S.S.Mahima	PLC/SCADA	BHEL	3 Weeks
44.	15NM1A0569	M.Pavani	PLC/SCADA	BHEL	3 Weeks
45.	15NM1A05B6	T.Vandhana	PLC/SCADA	BHEL	3 Weeks
46.	15NM1A05C2	Anupriya Acharya	PLC/SCADA	BHEL	3 Weeks
47.	15NM1A05D8	G.Haritha	PLC/SCADA	BHEL	3 Weeks
48.	16NM1A05G0	K. Sri Harsha	Student Intern Project	SPYRY	3 Weeks

Table: B.2.2.5f: Students Internship Details for the year for 2017-18

Post Training Certification:

Certification is one of the most important elements of training and essential to increase the uptake and encourage the completion of training. The students are awarded with certificates after the summer training Internship. A sample certificate is shown in Figure **B.2.2.5d**

Kalakar

Date: 24/09/2020

TO WHOMSOEVER IT MAY CONERN

This is to certify that Ms. NUPUR DAS from **Vignan's Institute of Engineering for Women** has done her internship at **Kalakar**, Visakhapatnam from **10/02/2020** to **10/04/2020**.

She has worked as a **Front-end Web developer.** During this period, she worked on a project which completely deals with designing a web application for the company. During the internship she demonstrated good design skills and good technical expertise on web development. She has self-motivated attitude and always keep updating her skills. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavors.

Warm regards,

Sarat Adireddi
CEO, Kalakar

KALAKAR PRODUCTIONS VISAKHAPATNAM

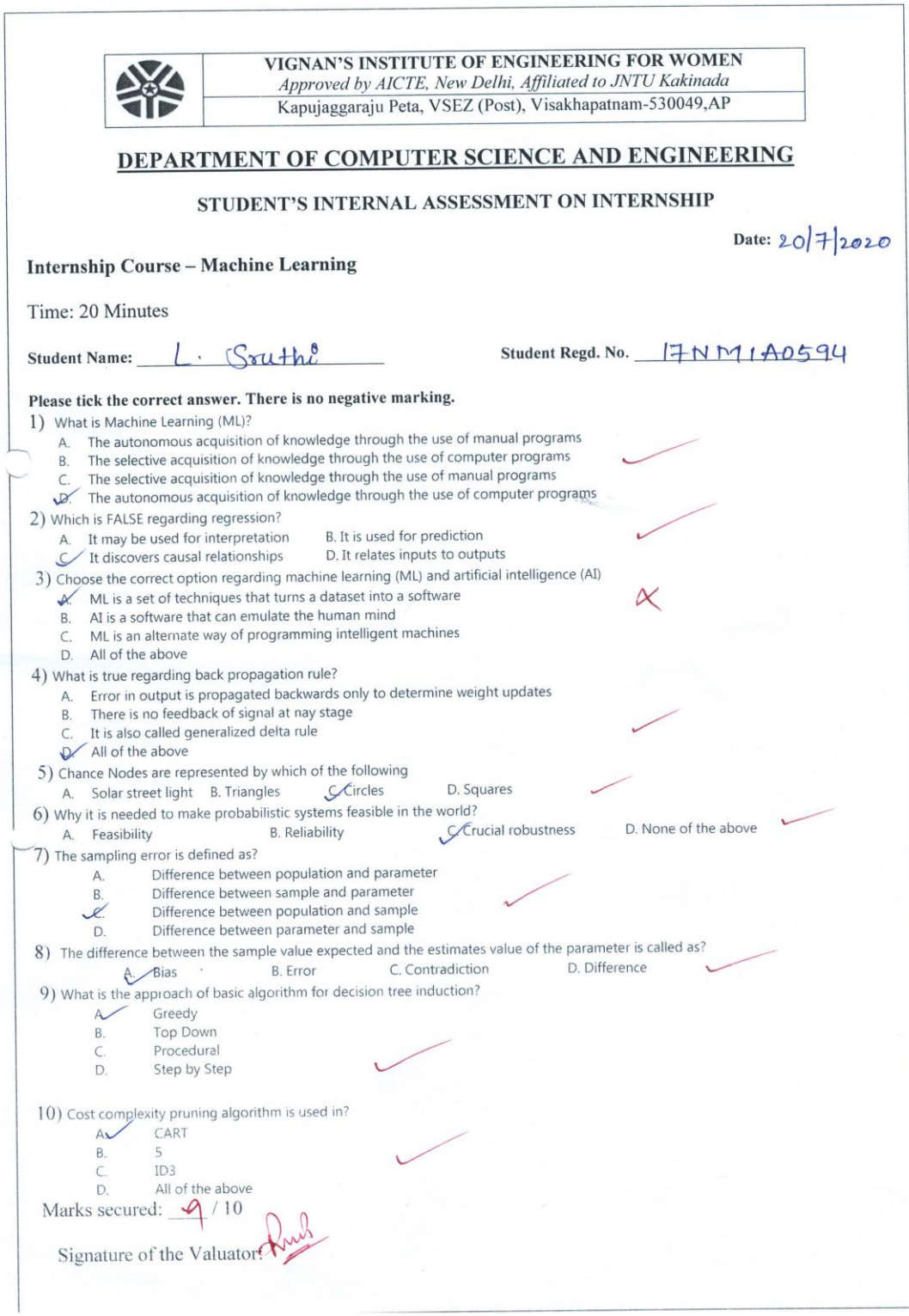
+91 73824 68685

kalakar.me@gmail.com

Figure B.2.2.5d: Student internship certificate

Post Training Assessment:

- Post Training Evaluation is a very important part of the learning and development process and checks whether the training has had the desired effect.
- Training evaluation ensures that whether students are able to implement their learning in their respective courses.
- The tests and assessments are designed and conducted to all the students who underwent training, and results presented back to the learners to understand their level of training.
- The exam is conducted offline/online in which 10 MCQs are given on the trained/internship related topic.
- The students have to give the exam before 1 week after the training.
- The sample offline evaluation form for web development is shown in below Figure: B.2.2.5e.



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Kapujaggaraju Peta, VSEZ (Post), Visakhapatnam-530049,AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT'S INTERNAL ASSESSMENT ON INTERNSHIP

Date: 20/7/2020

Internship Course – Machine Learning

Time: 20 Minutes

Student Name: L. Sruthi **Student Regd. No.** 17NM1A0594

Please tick the correct answer. There is no negative marking.

1) What is Machine Learning (ML)?
   A. The autonomous acquisition of knowledge through the use of manual programs
   B. The selective acquisition of knowledge through the use of computer programs
   C. The selective acquisition of knowledge through the use of manual programs
   D. The autonomous acquisition of knowledge through the use of computer programs

2) Which is FALSE regarding regression?
   A. It may be used for interpretation B. It is used for prediction
   C. It discovers causal relationships D. It relates inputs to outputs

3) Choose the correct option regarding machine learning (ML) and artificial intelligence (AI)
   A. ML is a set of techniques that turns a dataset into a software
   B. AI is a software that can emulate the human mind
   C. ML is an alternate way of programming intelligent machines
   D. All of the above

4) What is true regarding back propagation rule?
   A. Error in output is propagated backwards only to determine weight updates
   B. There is no feedback of signal at nay stage
   C. It is also called generalized delta rule
   D. All of the above

5) Chance Nodes are represented by which of the following
   A. Solar street light B. Triangles C. Circles D. Squares

6) Why it is needed to make probabilistic systems feasible in the world?
   A. Feasibility B. Reliability C. Crucial robustness D. None of the above

7) The sampling error is defined as?
   A. Difference between population and parameter
   B. Difference between sample and parameter
   C. Difference between population and sample
   D. Difference between parameter and sample

8) The difference between the sample value expected and the estimates value of the parameter is called as?
   A. Bias B. Error C. Contradiction D. Difference

9) What is the approach of basic algorithm for decision tree induction?
   A. Greedy
   B. Top Down
   C. Procedural
   D. Step by Step

10) Cost complexity pruning algorithm is used in?
   A. CART
   B. 5
   C. ID3
   D. All of the above

Marks secured: 9 / 10

Signature of the Valuator:

Figure B.2.2.5e: Sample Post training evaluation sheet for Machine Learning

C. Impact Analysis of Industrial Training (4)

For the last four years, more than 200 students received training from various industries in and around Visakhapatnam during semester break. The major industries in which students have undergone training are Steel Plant, Kalakar, Tech Mahindra, Accenture, HSL, Fluent Grid, etc.

- Awareness on recent tools used in industry help them to learn and grab opportunities in various MNC companies.
- Product based projects are implemented by the students.
- Team work, communication skills, soft skills are improved.
- Industry expert interaction helps them to understand the need of applying contextual knowledge to assess societal, health and safety issues.
- The visit to industry helps the student to improve the practical knowledge of the processes and systems.
- Students are motivated towards research-based knowledge by improving their degree through higher studies.

Academic Year	No. of students participated in Industrial training/ tours	No. of students got quality placements	No. of students implemented product-based projects	No. of students successfully graduated	No. of students implemented research-based projects
2020-21	47	122	15	152	43
2019-20	101	80	20	101	80
2018-19	145	97	16	145	32
-2017-18	124	78	16	124	24

Table B.2.2.5g: Impact Analysis of Industrial Training/ Tours

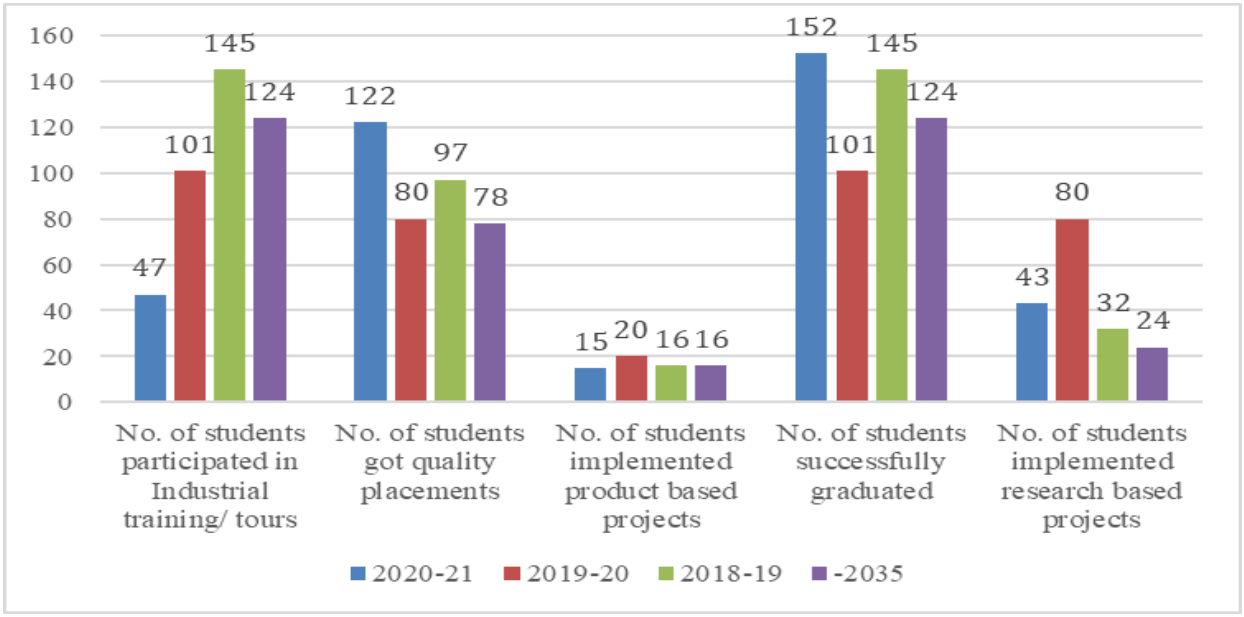


Figure B.2.2.5f: Impact Analysis of Industrial Training/ Tours

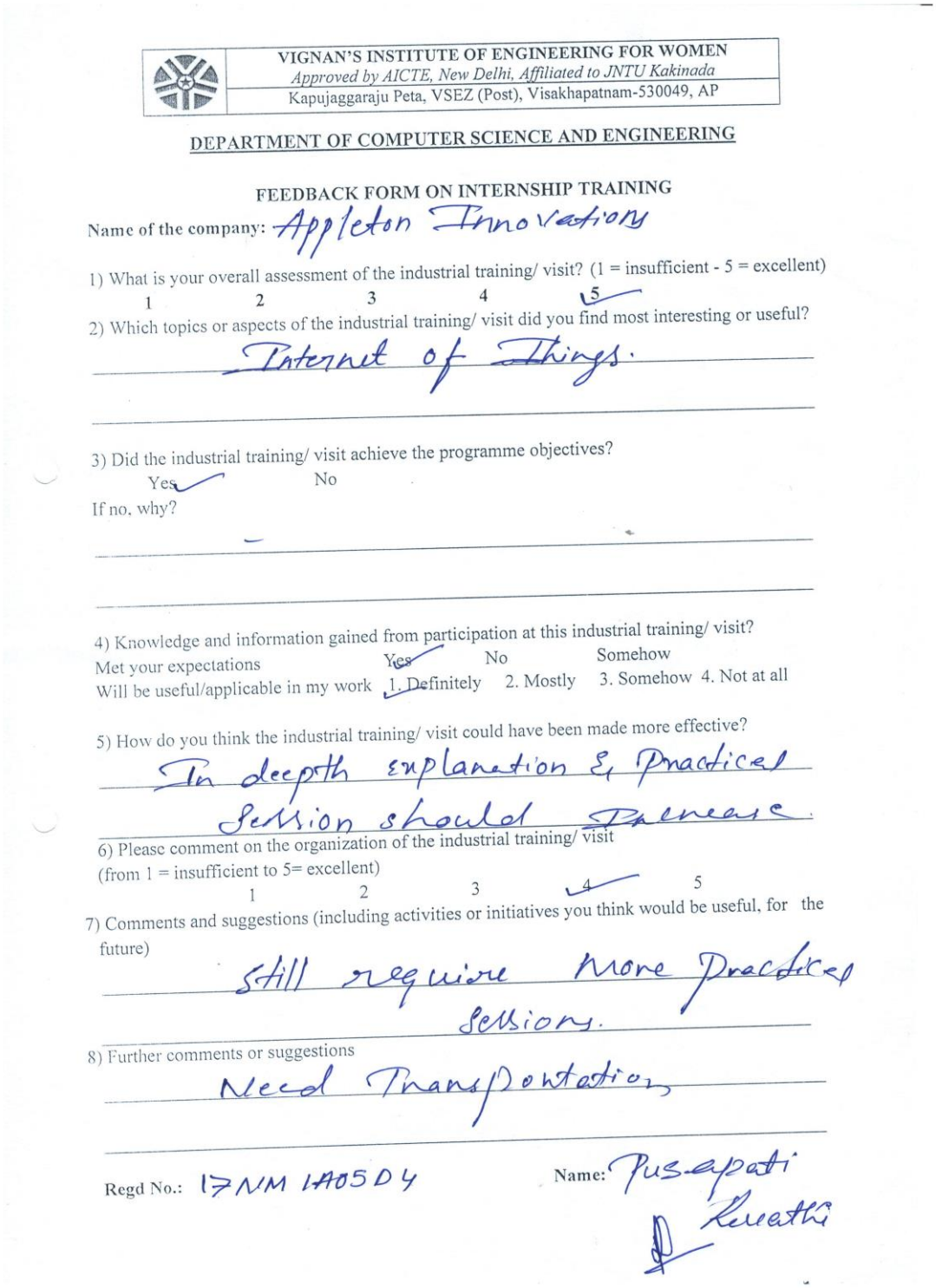
D. Student Feedback on Initiative

The feedback from the students who have visited the industries for internship/ training is collected and reviewed for further improvement in conducting such activities. The feedback collected helps the department to take necessary measures to improve and increase such activities that benefits the successive student batches. The following are some of the comments received by the students after their successful completion of training / industrial visit:

- Demonstrate the process of networking structure, network management and Telecom services provided by Tech Mahindra, BSNL.
- Understand the working model of 3D printing at AMTZ.
- Describe the types of systems used in Hindustan Shipyard Limited, BHEL, and Steel Plant.
- Students trained in Microsoft WISE program told that the program assisted them to get selected in companies with high packages as listed in TableB.2.2.1j.
- Students who underwent Machine Ignite program got selected in Microsoft.
- Students trained in HMI Robo Coupler Engineering Services are planning to make a Live Robo Model and exhibit in the next Live Model exhibition.

- Students trained in Internshala are doing machine learning projects as mini projects.

A sample filled feedback form for Industry internship/summer training is given below**:**



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Kapujaggaraju Peta, VSEZ (Post), Visakhapatnam-530049, AP

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FEEDBACK FORM ON INTERNSHIP TRAINING

Name of the company: Appleton Innovations

1) What is your overall assessment of the industrial training/ visit? (1 = insufficient - 5 = excellent)
1 2 3 4 5

2) Which topics or aspects of the industrial training/ visit did you find most interesting or useful?
Internet of Things.

3) Did the industrial training/ visit achieve the programme objectives?
Yes No
If no, why?
-

4) Knowledge and information gained from participation at this industrial training/ visit?
Met your expectations Yes No Somehow
Will be useful/applicable in my work 1. Definitely 2. Mostly 3. Somehow 4. Not at all

5) How do you think the industrial training/ visit could have been made more effective?
In deepth explanation & Practical Session should Increase.

6) Please comment on the organization of the industrial training/ visit
(from 1 = insufficient to 5= excellent)
1 2 3 4 5

7) Comments and suggestions (including activities or initiatives you think would be useful, for the future)
Still require more Practical Sessions.

8) Further comments or suggestions
Need Transportation

Regd No.: 17NM1A05D4 Name: Pusapati Keerthi

Figure B.2.2.5g: Sample student feedback form for Symbiosys Industry Visit

Feedback analysis on industrial visits/training:

Below is the consolidated analysis report collected from all the students based on the inputs given by students in their feedback form after their Industry Training/ Visit.

Feedback Analysis on AMTZ Industry Training/Visit

Industry Visited: **AMTZ Campus, Visakhapatnam**

Total No. of Students Visited: **90**

Admitted Batch: **2017**

Date Visited: **02-08-2019**

S.No.	Parameter	Feedback grades (1–insufficient to 5-excellent)				
		5	**4**	**3**	**2**	**1**
1.	Organization of the Industry Visit	72	16	NIl	Nil	Nil
2.	Overall Assessment of the Industry Visit	56	31	1	Nil	Nil
3.	Did the Industry visit/training program meet your expectations?	Yes: 88		No: Nil		
4.	Did the Industry visit/training program achieve your program objective	Yes: 88		No: Nil		
Knowledge and Information Gained		**Definitely**	**Mostly**	**Somehow**	**Not at all**	
5.	Will this Industrial Training/Visit useful/applicable to your career.	81	7	Nil	Nil	

Table B.2.2.5h: Feedback analysis of Andhra Pradesh MedTech Zone industrial visits/training

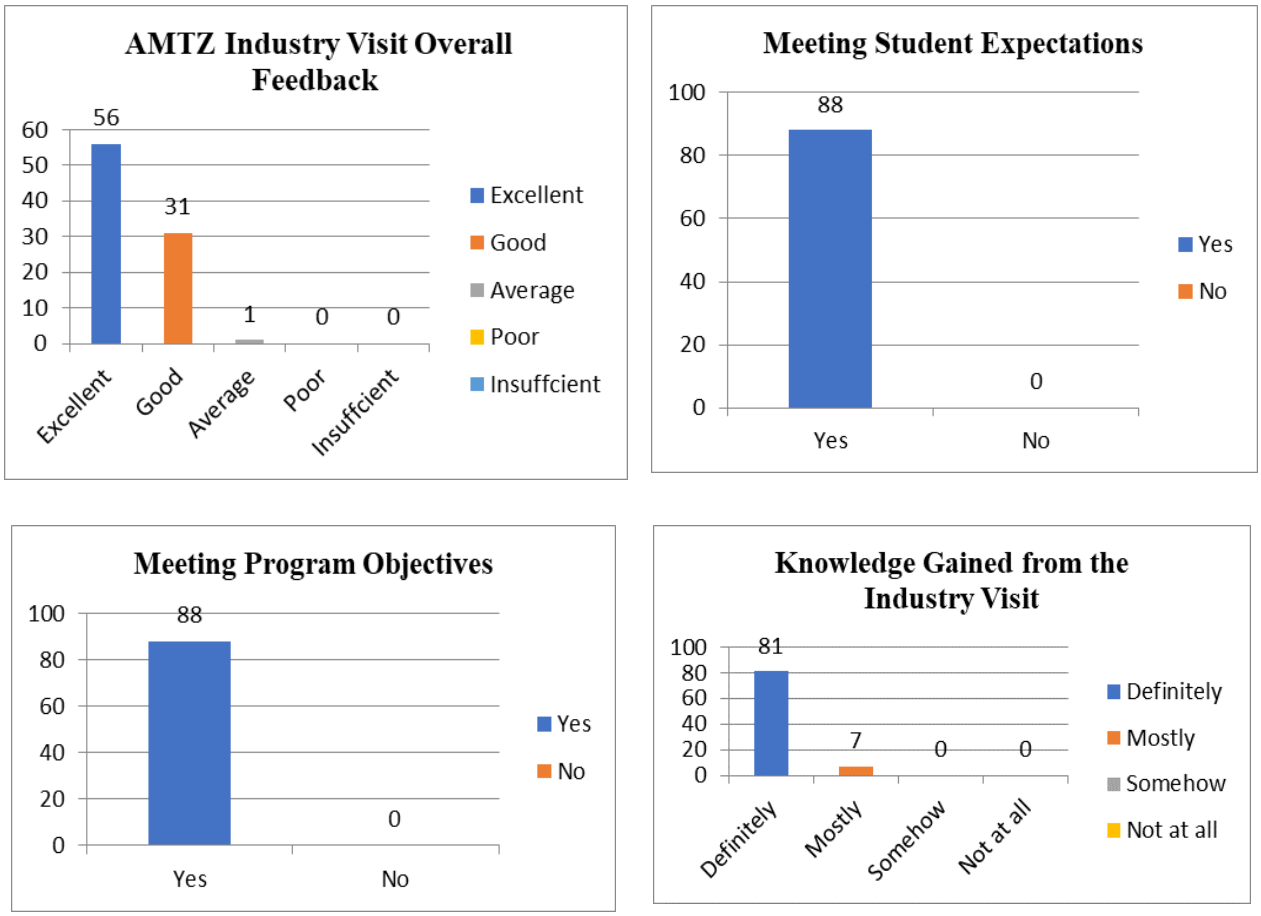


Figure B.2.2.5h: Feedback analysis on AMTZ industrial visits/training

Impact Analysis on industrial visits/training

- It helps students to gain information regarding functioning of the industry
- Provides an opportunity to plan, organise and engage in active learning experiences both inside and outside the classroom
- It is mandatory in various Indian universities and hence it also fulfils certain curriculum requirements
- Provides an insight into the real working environment of the industry
- Helps them to see their future place in the working world
- This also serves as a relation building process between Institutes and Industry
- Many of the companies also use it as a tool for building brand awareness
- Helps to enhance their interpersonal skills and communications

CRITERION 3	**Course Outcomes (CO) and Program Outcomes (PO)**	**120**

3.1	Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs)	20M
3.2	Attainment of Course Outcomes	50M
3.3	Attainment of Program Outcomes and Program Specific Outcomes	50M

3. COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

3.1. Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

(Program Outcomes as mentioned in Annexure-1 and Program specific Outcomes as defined by the Program)

Program Specific Outcomes (PSO):

PSO1: Graduates exhibit knowledge of basic sciences, skills in engineering specialization like information security, cloud computing, networking, software engineering and data analytics.

PSO2: Graduates can adapt to evolving technologies for design and development of full stack applications, exploring with optimal programming skills.

3.1.1. Course Outcomes (COs) (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5)

Course Outcomes of 2017 admitted batch

Course Name**: Computer Graphics;** Year of Study: **2018-19;** Year/Sem: **II/I**	
C206.1	Demonstrate the 2D output primitives using viewing and transformation.
C206.2	Express projections, transformation and viewing for 3D objects.
C206.3	Illustrate three dimensional scenes using OpenGL programming.
C206.4	Construct a camera in a program to render the graphic scene.
C206.5	Summarize the fractals using peano curves and Mandelbrot sets.
C206.6	Simulate surface textures and reflections with ray tracing concepts.

Course Name**: Java Programming;** Year of Study: **2018-19;** Year/Sem: **II/II**	
C210.1	Generalize the various concepts and principles of structured and object-oriented programming languages
C210.2	Construct the classes, objects, and constructors in java
C210.3	Apply object-oriented constructs and exception handling in JAVA applications
C210.4	Discuss multi-threading concepts and file accessing mechanisms in JAVA
C210.5	Make use of applets and write sample programs with event handling in JAVA.
C210.6	Develop interfaces using AWT and handle different kind of events.

Course Name**: Compiler Design;** Year of Study: **2019-20;** Year/Sem: **III/I**	
C301.1	Discuss the different translators and knowledge of Compilers and its phases.
C301.2	Illustrate the role of parsers and construct the parse tree using top-down and bottom-up parsing techniques.
C301.3	Construct parse table for a given grammar using most powerful bottom-up parsing techniques.
C301.4	Simulate symbol table and Intermediate code for a given program.
C301.5	Apply code optimization techniques to improve the performance of a program.
C301.6	Identify tools to construct the Machine Independent code.

Course Name**: Computer Networks;** Year of Study: **2019-20;** Year/Sem: **III/II**	
C310.1	Classify various layers of OSI model and TCP/IP protocol and to dwell deep into network models and topologies
C310.2	Identify various aspects of physical layer functions such as multiplexing techniques in Communication Channels
C310.3	Calculate various error detection and correction techniques by availing the Services of Data link layer for reliable data transmission
C310.4	Outline different MAC layer protocols & standards by enabling different layers through defined IEEE norms
C310.5	Examine various methodologies of network survivability using Routing Algorithms with different Topologies
C310.6	List various protocols supported by Application layer and make use of diverse functions within TCP and UDP protocols by transport layer

Course Name**: Software Architecture and Design Pattern;** Year of Study: **2020-21;** Year/Sem: **IV/I**	
C402.1	Observe the difference between software system and software architecture and identify the quality attributes of architecture.
C402.2	Analyze the design and decisions of software architecture and evolution of software architecture by various models
C402.3	Construct the software design using creational patterns
C402.4	Develop the software design for real world problems using structural patterns.
C402.5	Construct behavioral patterns for testing the quality of system in software design.
C402.6	Analyze the various system quality attributes using case studies.

Course Name**: Concurrent and Parallel Programming;** Year of Study: **2020-21;** Year/Sem: **IV/II**	
C412.1	Analyze and document the difference between sequential systems and concurrent systems.
C412.2	Solve problems requiring both semaphores and inter process communication as part of the solution.
C412.3	Design and implement concurrent and parallel algorithms.
C412.4	Demonstrate a critical understanding of multi processor and multi core architectures for parallel programming.

C412.5	Analyze the difference between various parallel programming languages.
C412.6	Use parallelization mechanisms C++, AMP and OpenCL in heterogeneous computing.

Table B.3.1.1.a: Course Outcomes for 2017 admitted Batch

Course Outcomes of 2016 admitted batch

Course Name**: Python Programming;** Year of Study: **2017-18;** Year/Sem: **II/I**	
C204.1	Discuss the need of Python programming.
C204.2	Write Python programs using various operators and control structures.
C204.3	Examine various python data structures and use them.
C204.4	Analyze various packages of Python and its functions.
C204.5	Demonstrate the features of object-oriented programming in python.
C204.6	Devise GUI and test cases using standard libraries in Python.

Course Name**: Advanced Data Structures;** Year of Study: **2017-18;** Year/Sem: **II/II**	
C211.1	Demonstrate External Search and Sorting Algorithms on External Memory
C211.2	Classify the various types of hashing techniques such as static and dynamic
C211.3	Discuss priority queues using Binary heap and Binomial Queue and their applications.
C211.4	Illustrate the need of AVL trees, Red & Black trees and their operations
C211.5	Discuss M-way, B-tree and B+ trees and examine their operations
C211.6	Demonstrate Digital Search trees and various models of tries

Course Name**: Unix Programming;** Year of Study: **2018-19;** Year/Sem: **III/I**	
C302.1	Identify and make effective use of the basic set of commands and utilities in Unix systems
C302.2	Describe file system and file handling utilities in Unix environment.
C302.3	Develop new commands using positional parameters as arguments.
C302.4	Use various filter commands to restructure the output for generating useful reports and modifying text in files.
C302.5	Examine shell environment and shell programming concepts.
C302.6	Distinguish the various internal and external commands.

Course Name**: Data Warehousing and Mining;** Year of Study: **2018-19;** Year/Sem: **III/II**	
C311.1	Summarize the basic concepts of data mining.
C311.2	Describe various data pre-processing procedures and their application scenarios.
C311.3	Use Decision Trees to solve Classification problem.

C311.4	Illustrate the alternative classification techniques on data.
C311.5	Discuss Association analysis on Frequent item sets.
C311.6	Apply clustering algorithms on given data.

Course Name**: Web Technologies;** Year of Study: **2019-20;** Year/Sem: **IV/I**	
C403.1	Practice developing web pages with ethics and identify its elements and attributes.
C403.2	Use javascript at the backend for creating web pages.
C403.3	Write simple client-side scripts using AJAX.
C403.4	Develop web applications using PHP.
C403.5	Evolve Dynamic web pages using PERL Script.
C403.6	Develop Dynamic web pages using RUBY.

Course Name**: Distributed Systems;** Year of Study: **2019-20;** Year/Sem: **IV/II**	
C409.1	Outline the important characteristics of distributed systems and the salient architectural features of distributed systems.
C409.2	Identify the features and applications of important standard protocols that are used in distributed systems.
C409.3	Examine the working methods like remote procedure call remote method invocation using distributed objects.
C409.4	Explain creation of process and threads in distributed systems.
C409.5	Examine the file system services and various algorithms used in coordination of distributed systems.
C409.6	Classify the distributed systems transactions and its recovery strategies and replication methods.

Table B.3.1.1.b: Course Outcomes for 2016 admitted Batch

Course Outcomes of admitted batch 2015

Course Name**:** Course Name**: Data Structures;** Year of Study: **2016-17;** Year/Sem: **II/I**	
C205.1	Classify data structures; implement various recursive problems and linear data structures to relate real world applications.
C205.2	Develop linear data structures using stack and queue operations for storing and evaluating the input data.
C205.3	Develop linear data structures using arrays and linked lists and the ability to apply them to solve generic problems.
C205.4	Develop non-linear data structures using various operations to create tree structures.
C205.5	Illustrate data structure algorithms using applications of binary search tree and graphs.
C205.6	Evaluate minimum cost spanning trees and shortest path using various applications of graph algorithms.

Course Name**: Java Programming;** Year of Study: **2016-17;** Year/Sem: **II/II**	
C211.1	Generalize the basic concepts and principles of structured as well as the object-oriented programming.
C211.2	Determine and demonstrate all data types, primitives, operators, control statements, arrays, functions and all standard objects available in java.
C211.3	Apply object-oriented constructs such as class hierarchies, interfaces and exception handling.
C211.4	Write good java programs in GUI using applets for helping society and environment.
C211.5	Analyze the working of synchronization of threads.
C211.6	Develop interfaces using AWT and swings for designing projects.

Course Name**: Operating Systems;** Year of Study: **2017-18;** Year/Sem: **III/I**	
C305.1	Outline the major components and the services of an operating system provides to user, processes and other systems.
C305.2	Discuss the process and its scheduling, multithread models to evaluation criteria for selecting a CPU scheduling algorithm.
C305.3	Analyze solutions to ensure consistency of shared data problems and classic problems of process synchronization.
C305.4	Discuss various memory management techniques, the benefits of virtual memory system and page replacement algorithms
C305.5	Identify deadlock and different methods for preventing or avoiding deadlocks in a computer system.
C305.6	Discuss access methods, structures, allocation methods of files and disks.

Course Name**: Software Engineering;** Year of Study: **2017-18;** Year/Sem: **III/II**	
C313.1	Classify the various software development models for achieving the challenges of software engineering
C313.2	Identify the suitable software requirements and prepare SRS document using various Analyses
C313.3	Analyze software design using various software designing models and its principles
C313.4	Apply coding standards to build code for applications and testing approaches of verification & validation
C313.5	Estimate the project planning and role of the project management using project estimation Techniques.
C313.6	Explain the software maintenance using various software quality factors

Course Name**: Software Testing Methodologies;** Year of Study: **2018-19;** Year/Sem: **IV/I**	
C404.1	Illustrate Software Testing Terminology and Methodology and the basic concepts of software complexity
C404.2	Demonstrate the various bugs and correcting them after knowing the consequences of the bug.

C404.3	Apply appropriate software testing techniques and methods for white-box and static-testing of a software development project.
C404.4	Analyze the problems by designing and selecting software test strategies, and methods
C404.5	Analyze the problems by designing matrix of graph models, criteria, strategies ,and algorithms
C404.6	Discover the Challenges in testing of applications in various tools like Win runner, Load Runner, JMeter.

Course Name**: Distributed Systems;** Year of Study: **2018-19; Y**ear/Sem: **IV/II**	
C412.1	Discuss the various distributed system models and their architectural features.
C412.2	Analyze the important characteristics of inter-process communication of the standard protocols.
C412.3	Organize the remote method invocation using distributed objects with a case study.
C412.4	Outline the processes and thread creation and protection in operating system.
C412.5	Outline various algorithms used in coordination of distributed systems and distributed file systems.
C412.6	Apply transactions and its recovery strategies in distributed systems

Table B.3.1.1.c: Course Outcomes for 2015 admitted Batch

3.1.2. CO-PO matrices of courses selected in 3.1.1 (six matrices to be mentioned; one per semester from 3rd to 8th semester) (05)

The following represents the course outcome relation with the PO/PSO. The table consists of the correlation of the outcomes defined in Sec. 3.1.1 with respect to the program outcomes and the PSOs.

Admitted Batch 2017

Course Name**: Computer Graphics;** Year of Study: **2018-19;** Year/Sem: **II/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C206.1	3	2	2		2	-	-	2	2	-	-	-
C206.2	3	2	3	2	2	-	-	-	2	-	-	-
C206.3	3	2	-	-	-	-	-	3	2	-	2	2
C206.4	3	3	-	-	-	-	-	-	-	-	2	-
C206.5	3	3	-	3	-	-	-	3	-	-	-	-
C206.6	3	3	-	-	-	-	-	2	-	-	-	2
C206	**3.00**	**2.50**	**2.50**	**2.50**	**2.00**	**-**	**-**	**2.50**	**2.00**	**-**	**2.00**	**2.00**

Course Name**: Java Programming;** Year of Study: **2018-19;** Year/Sem: **II/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C210.1	3	2	2	3	-	-	-	-	2	-	-	2

C210.2	3	3	3	3	-	-	-	-	2	-	-	2
C210.3	2	2	3	2	3	-	-	-	2	-	-	2
C210.4	2	2	3	-	-	-	-	-	2	-	-	2
C210.5	2	3	3	-	2	-	-	-	2	-	-	2
C210.6	2	2	3	2	2	2	-	-	2	-	2	2
C210	**2.33**	**2.33**	**2.83**	**2.50**	**2.33**	**2.00**	**-**	**-**	**2.00**	**-**	**2.00**	**2.00**

Course Name**: Compiler Design;** Year of Study: **2019-20;** Year/Sem: **III/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C301.1	3	-	2	-	-	-	-	-	2	-	-	2
C301.2	3	2	2	3	-	-	-	-	2	-	-	-
C301.3	3	3	3	-	-	-	-	-	2	-	-	-
C301.4	3	3	3	3	-	-	-	-	2	-	2	2
C301.5	2	-	-	-	-	-	-	-	-	-	-	-
C301.6	2	-	-	-	-	-	-	-	-	-	-	2
C30	**2.67**	**2.67**	**2.50**	**3.00**	**-**	**-**	**-**	**-**	**2.00**	**-**	**2.00**	**2.00**

Course Name**: Computer Networks;** Year of Study: **2019-20;** Year/Sem: **III/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C310.1	2	2	3	3	2		-	2	-	-	2	2
C310.2	2	2	2	2	2	2	-	3	-	-	-	-
C310.3	2	2	2	3	2	3	2	3	-	2	-	3
C310.4	2	3	3	3	3		-	3	-	-	3	-
C310.5	3	3	2	3	3	2	-	3	-	2	3	-
C310.6	3	3	3	3	2	3	2	3	-	-	3	-
C310	**2.33**	**2.50**	**2.50**	**2.83**	**2.33**	**2.50**	**2.00**	**2.83**	**-**	**2.00**	**2.75**	**2.50**

Course Name**: Software Architecture and Design Pattern;** Year of Study: **2020-21;** Year/Sem: **IV/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C402.1	2	2	3	2	-	2	-	-	-	-	-	2
C402.2	3	-	-	3	-	2	-	-	-	-	-	-
C402.3	2	-	-	3	-	-	-	3	-	-	-	-
C402.4	2	3	-	3	-	-	-	3	3	-	-	-
C402.5	2	-	3	3	-	-	-	-	3	-	-	-

C402.6	3	-	3	3	-	-	-	-	-	-	-	3
C402	**2.33**	**2.50**	**3.00**	**2.83**	**-**	**2.00**	**-**	**3.00**	**3.00**	**-**	**-**	**2.50**

Course Name**: Concurrent and Parallel Programming;** Year of Study: **2020-21;** Year/Sem: **IV/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C412.1	3	3	-	-	-	-	-	-	-	-	-	2
C412.2	3	3	-	3	-	-	-	-	-	-	-	2
C412.3	3	3	3	3	-	-	-	-	-	-	-	-
C412.4	3	2	-	-	-	-	-	-	-	-	-	-
C412.5	3	3	3	3	3	-	-	-	-	-	-	3
C412.6	3	2	2	-	2	-	-	-	-	-	-	-
C412	**3.00**	**2.67**	**2.67**	**3.00**	**2.50**	**-**	**-**	**-**	**-**	**-**	**-**	**2.33**

Table B.3.1.2.a: CO-PO mapping for 2017 admitted Batch

Admitted Batch 2016

Course Name**: Python Programming;** Year of Study: **2017-18;** Year/Sem: **II/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C204.1	2	2	3	-	2	-	-	-	-	-	-	-
C204.2	3	2	3	-	2	-	-	-	-	-	-	-
C204.3	3	3	3	-	2	-	-	-	-	-	-	-
C204.4	3	3	3	2	2	-	-	-	-	-	-	2
C204.5	3	3	3	2	2	-	-	-	-	-	-	-
C204.6	3	3	2	2	2	-	-	-	-	-	-	2
C204	**2.83**	**2.67**	**2.83**	**2.00**	**2.67**	**-**	**-**	**-**	**-**	**-**	**-**	**2.00**

Course Name**: Advanced Data Structures;** Year of Study: **2017-18;** Year/Sem: **II/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C211.1	3	3	2	2	-	-	-	-	-	-	3	-
C211.2	3	3	2	3	3	2	-	-	-	-	-	2
C211.3	3	3	3	-	3	2	-	-	-	-	-	2
C211.4	3	3	3	3	3	-	-	-	2	-	-	-
C211.5	3	3	3	-	3	-	-	-	2	-	2	-
C211.6	3	3	3	-	-	-	-	-	2	-	-	-
C211	**3.00**	**3.00**	**2.67**	**2.67**	**3.00**	**2.00**	**-**	**-**	**2.00**	**-**	**2.50**	**2.00**

Course Name**: Unix Programming;** Year of Study: **2018-19;** Year/Sem: **III/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C302.1	2	3	2	-	-	-	-	-	-	2	3	-
C302.2	2	3	3	-	-	-	-	-	2	-	-	-
C302.3	2	3	3	2	-	-	-	-	3	2	-	-
C302.4	3	3	3	2	2	-	-	-	-	-	3	-
C302.5	3	2	3	2	3	-	-	-	-	2	2	-
C302.6	3	3	3	2	-	-	-	-	-	-	2	2
C302	**2.50**	**2.83**	**2.83**	**2.00**	**2.50**	**-**	**-**	**-**	**2.50**	**2.00**	**2.50**	**2.00**

Course Name**: Data Warehousing and Mining;** Year of Study: **2018-19;** Year/Sem: **III/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C311.1	2	3	2	3	-	-	-	2	-	-	-	2
C311.2	2	3	3	3	-	-	-	3	-	-	-	3
C311.3	2	3	3	3	2	-	-	3	-	-	2	2
C311.4	2	3	3	3	-	-	-	3	-	-	2	2
C311.5	3	3	3	3	2	-	-	3	-	-	3	3
C311.6	3	3	3	3	3	-	-	3	-	-	3	3
C311	**2.33**	**3.00**	**2.83**	**3.00**	**2.33**	**-**	**-**	**2.83**	**-**	**-**	**2.50**	**2.50**

Course Name**: Web Technologies;** Year of Study: **2019-20;** Year/Sem: **IV/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C403.1	3	2	3	-	2	-	-	2	-	-	-	2
C403.2	3	2	3	-	3	-	-	3	-	-	-	-
C403.3	3	2	3	-	3	-	-	3	-	-	-	2
C403.4	3	3	3	-	3	3	-	3	3	-	-	2
C403.5	3	3	3	3	3	3	-	3	3	-	-	2
C403.6	3	3	3	3	3	3	-	3	2	-	-	3
C403	**3.00**	**2.50**	**3.00**	**3.00**	**2.83**	**3.00**	**-**	**2.83**	**2.67**	**-**	**-**	**2.20**

Course Name**: Distributed Systems;** Year of Study: **2019-20;** Year/Sem: **IV/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C409.1	3	3	2	-	-	2	-	-	3	-	-	3
C409.2	3	3	2	-	-	-	-	-	2	2	-	2
C409.3	3	2	3	2	2	3	-	-	-	-	-	2

C409.4	2	2	3	3	2	-	-	-	-	-	-	3
C409.5	3	2	2	3	2	-	-	-	2	-	-	3
C409.6	2	2	2	-	3	-	-	-	3	-	-	2
C409	**2.67**	**2.33**	**2.33**	**2.67**	**2.25**	**2.50**	**-**	**-**	**2.50**	**2.00**	**-**	**2.50**

Table B.3.1.2.b: CO-PO mapping for 2016 admitted Batch

Admitted Batch 2015

Course Name**:** Course Name**: Data Structures;** Year of Study: **2016-17;** Year/Sem: **II/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C205.1	3	3	3	2	2	2	-	-	2	-	2	2
C205.2	3	3	3	2	2	-	-	-	3	-	-	2
C205.3	3	3	3	3	2	3	-	-	2	-	2	3
C205.4	2	2	3	3	2	-	-	-	-	-	-	2
C205.5	2	2	2	3	2	-	-	-	-	-	-	2
C205.6	2	2	2	3	2	2	-	-	-	-	-	3
C205	**2.50**	**2.50**	**2.67**	**2.67**	**2.00**	**2.33**	**-**	**-**	**2.33**	**-**	**2.00**	**2.33**

Course Name**: Java Programming;** Year of Study: **2016-17;** Year/Sem: **II/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C211.1	3	3	3	2	3	2	-	2	2	-	2	2
C211.2	3	3	3	2	3	2	-	2	2	-	2	2
C211.3	2	3	3	2	2	-	-	2	2	-	-	2
C211.4	2	2	2	2	2	-	-	2	2	-	-	2
C211.5	2	2	2	2	2	-	-	2	-	-	-	2
C211.6	2	2	2	2	2	-	-	-	2	-	-	2
C211	**2.33**	**2.50**	**2.50**	**2.00**	**2.33**	**2.00**	**-**	**2.00**	**2.00**	**-**	**2.00**	**2.00**

Course Name**: Operating Systems;** Year of Study: **2017-18;** Year/Sem: **III/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C305.1	3	3	3	3	-	-	-	-	-	3	-	-
C305.2	3	3	3	3	-	-	-	-	-	3	-	-
C305.3	2	2	3	3	-	-	-	-	-	3	-	-
C305.4	2	2	2	3	3	-	-	-	-	2	-	3
C305.5	2	2	2	2	2	-	-	2	2	2	-	2
C305.6	2	2	2	2	2	-	-	-	-	2	-	2

C305	**2.33**	**2.33**	**2.50**	**2.67**	**2.33**	**-**	**-**	**2.00**	**2.00**	**2.50**	**-**	**2.33**

Course Name**: Software Engineering;** Year of Study: **2017-18;** Year/Sem: **III/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C313.1	3	2	-	2	2	2	-	2	2	2	3	2
C313.2	3	2	2	2	2	2	-	3	3	2	2	2
C313.3	2	2	2	3	2	2	-	3	2	2	3	2
C313.4	2	3	3	3	2	3	-	3	3	2	3	2
C313.5	3	3	3	3	2	3	-	3	3	2	3	3
C313.6	3	3	-	3	2	3	-	3	3	2	3	3
C313	**2.67**	**2.50**	**2.50**	**2.67**	**2.00**	**2.50**	**-**	**2.83**	**2.67**	**2.00**	**2.83**	**2.33**

Course Name**: Software Testing Methodologies;** Year of Study: **2018-19;** Year/Sem: **IV/I**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C404.1	3	3	3	3	2	-	-	3	2	2	-	-
C404.2	3	3	3	3	2	2	-	3	2	2	2	-
C404.3	2	3	3	3	2	-	-	3	-	-	-	2
C404.4	2	2	2	3	2	2	-		-	3	3	2
C404.5	2	2	2	2	2	3	-		3	-	3	-
C404.6	2	2	2	2	2	-	-		-	-	-	3
C404	**2.33**	**2.50**	**2.50**	**2.67**	**2.00**	**2.33**	**-**	**3.00**	**2.33**	**2.33**	**2.67**	**2.33**

Course Name**: Distributed Systems;** Year of Study: **2018-19; Y**ear/Sem: **IV/II**												
Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
C412.1	3	3	2	3	-	2	-	-	-	-	2	2
C412.2	2	2	2	3	-	-	-	-	-	-	-	2
C412.3	2	3	3	3	2	2	-	-	-	-	-	-
C412.4	2	2	3	2	2	-	-	-	2	-	2	-
C412.5	3	2	2	3	-	3	-	-	2	-	-	2
C412.6	2	2	2	3	2	-	-	-	2	-	2	2
C412	**2.33**	**2.33**	**2.33**	**2.83**	**2.00**	**2.33**	**-**	**-**	**2.00**	**-**	**2.00**	**2.00**

Table B.3.1.2.c: CO-PO mapping for 2015 admitted Batch

Admitted Batch 2017

Course Name**: Computer Graphics;** Year of Study: **2018-19;** Year/Sem: **II/I**		
Course	**PSO 1**	**PSO 2**
C206.1	2	3
C206.2	3	-
C206.3	3	3
C206.4	3	3
C206.5	3	3
C206.6	3	-
Average	**2.83**	**3.00**

Course Name**: Java Programming;** Year of Study: **2018-19;** Year/Sem: **II/II**		
Course	**PSO 1**	**PSO 2**
C210.1	2	2
C210.2	2	2
C210.3	2	2
C210.4	2	2
C210.5	3	2
C210.6	3	2
Average	**2.33**	**2.00**

Course Name**: Compiler Design;** Year of Study: **2019-20;** Year/Sem: **III/I**		
Course	**PSO 1**	**PSO 2**
C301.1	3	-
C301.2	3	3
C301.3	3	3
C301.4	2	-
C301.5	3	-
C301.6	3	-
Average	**2.83**	**3.00**

Course Name**: Computer Networks;** Year of Study: **2019-20;** Year/Sem: **III/II**		
Course	**PSO 1**	**PSO 2**
C310.1	3	-

C310.2	3	-
C310.3	3	3
C310.4	-	-
C310.5	3	3
C310.6	3	3
Average	**3.00**	**3.00**

Course Name**: Software Architecture and Design Pattern;** Year of Study: **2020-21;** Year/Sem: **IV/I**		
Course	**PSO 1**	**PSO 2**
C402.1	-	-
C402.2	3	-
C402.3	-	3
C402.4	-	-
C402.5	-	-
C402.6	3	3
Average	**3.00**	**3.00**

Course Name**: Concurrent and Parallel Programming;** Year of Study: **2020-21;** Year/Sem: **IV/II**		
Course	**PSO 1**	**PSO 2**
C412.1	3	2
C412.2	3	2
C412.3	3	2
C412.4	3	2
C412.5	3	2
C412.6	3	2
Average	**3.00**	**2.00**

Table B.3.1.2.d: CO-PSO Mapping for 2017 Admitted Batch

Admitted Batch 2016

Course Name**: Python Programming;** Year of Study: **2017-18;** Year/Sem: **II/I**		
Course	**PSO 1**	**PSO 2**
C204.1	2	2
C204.2	2	2

C204.3	3	2
C204.4	3	2
C204.5	3	2
C204.6	3	2
Average	**2.67**	**2.00**

Course Name**: Advanced Data Structures;** Year of Study: **2017-18;** Year/Sem: **II/II**		
Course	**PSO 1**	**PSO 2**
C211.1	3	-
C211.2	2	3
C211.3	3	3
C211.4	3	-
C211.5	3	-
C211.6	3	-
Average	**2.83**	**3.00**

Course Name**: Unix Programming;** Year of Study: **2018-19;** Year/Sem: **III/I**		
Course	**PSO 1**	**PSO 2**
C302.1	3	2
C302.2	2	2
C302.3	3	-
C302.4	2	-
C302.5	-	2
C302.6	3	-
Average	**2.67**	**2.00**

Course Name**: Data Warehousing and Mining;** Year of Study: **2018-19;** Year/Sem: **III/II**		
Course	**PSO 1**	**PSO 2**
C311.1	3	-
C311.2	3	-
C311.3	3	3
C311.4	3	3
C311.5	3	3
C311.6	3	3

Average	**3.00**	**3.00**

Course Name**: Web Technologies;** Year of Study: **2019-20;** Year/Sem: **IV/I**		
Course	**PSO 1**	**PSO 2**
C403.1	2	3
C403.2	2	3
C403.3	3	3
C403.4	3	3
C403.5	3	3
C403.6	3	3
Average	**2.67**	**3.00**

Course Name**: Distributed Systems;** Year of Study: **2019-20;** Year/Sem: **IV/II**		
Course	**PSO 1**	**PSO 2**
C409.1	3	-
C409.2	-	3
C409.3	-	3
C409.4	3	3
C409.5	3	3
C409.6	-	-
Average	**3.00**	**3.00**

Table B.3.1.2.e: CO-PSO Mapping for 2016 Admitted Batch

Admitted Batch 2015

Course Name**:** Course Name**: Data Structures;** Year of Study: **2016-17;** Year/Sem: **II/I**		
Course	**PSO 1**	**PSO 2**
C205.1	2	2
C205.2	3	2
C205.3	3	3
C205.4	3	3
C205.5	3	3
C205.6	3	3
Average	**2.83**	**2.67**

Course Name**: Java Programming;** Year of Study: **2016-17;** Year/Sem: **II/II**		
Course	**PSO 1**	**PSO 2**
C211.1	3	3
C211.2	3	3
C211.3	3	3
C211.4	3	3
C211.5	3	2
C211.6	2	2
Average	**2.83**	**2.67**

Course Name**: Operating Systems;** Year of Study: **2017-18;** Year/Sem: **III/I**		
Course	**PSO 1**	**PSO 2**
C305.1	3	3
C305.2	3	3
C305.3	3	3
C305.4	2	3
C305.5	3	3
C305.6	3	2
Average	**2.83**	**2.83**

Course Name**: Software Engineering;** Year of Study: **2017-18;** Year/Sem: **III/II**		
Course	**PSO 1**	**PSO 2**
C313.1	2	3
C313.2	3	3
C313.3	3	3
C313.4	3	3
C313.5	3	3
C313.6	3	2
Average	**2.83**	**2.83**

Course Name**: Software Testing Methodologies;** Year of Study: **2018-19;** Year/Sem: **IV/I**		
Course	**PSO 1**	**PSO 2**
C404.1	3	2
C404.2	3	3

C404.3	3	3
C404.4	3	3
C404.5	3	3
C404.6	3	3
Average	**3.00**	**2.83**

Course Name**: Distributed Systems;** Year of Study: **2018-19; Y**ear/Sem: **IV/II**		
Course	**PSO 1**	**PSO 2**
C412.1	2	2
C412.2	3	2
C412.3	3	2
C412.4	3	2
C412.5	3	2
C412.6	3	2
Average	**2.83**	**2.00**

Table B.3.1.2.f: CO-PSO Mapping for 2015 Admitted Batch

3.1.3-A Program level Course-PO matrix of all courses including first year courses (10)

Program level Course-POs Correlation Matrix for 2017 Admitted Batch

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	-	-	-	-	-	2.33	2.33	2.33	2.33	3.00	2.50	3.00
C102	3.00	3.00	3.00	3.00	-	3.00	2.50	2.50	-	-	2.50	3.00
C103	2.83	2.67	2.60	2.60	2.50	-	3.00	3.00	-	-	2.60	2.80
C104	3.00	2.67	3.00	3.00	-	3.00	2.75	2.75	-	-	-	2.67
C105	2.67	2.67	2.50	2.50	2.50	-	-	-	2.50	-	-	2.50
C106	2.67	2.50	2.50	2.50	-	2.50	3.00	3.00	3.00	-	3.00	3.00
C107	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	2.00	3.00
C108	3.00	2.50	2.33	2.33	2.33	2.00	2.00	2.00	2.00	2.00	-	2.00
C109	3.00	2.50	2.33	2.33	2.33	2.00	2.00	2.00	2.00	2.00	-	2.00
C110	3.00	2.67	2.33	2.33	2.33	-	-	2.33	2.33	-	-	-
C111	-	-	-	-	-	2.50	2.33	2.50	2.33	2.33	2.50	3.00
C112	3.00	3.00	3.00	2.33	-	2.33	2.33	2.33	-	-	2.33	3.00
C113	3.00	3.00	2.50	2.50	-	2.50	2.50	2.50	-	-	-	2.50
C114	3.00	2.50	2.25	2.33	2.33	-	-	-	3.00	-	-	3.00
C115	-	-	2.50	-	-	2.00	2.25	2.25	2.25	-	2.33	2.33
C116	3.00	3.00	3.00	3.00	2.00	2.50	-	-	-	-	-	-
C117	2.67	2.33	-	2.50	2.50	-	2.00	-	2.00	2.00	-	2.00
C118	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	2.00	3.00
C119	3.00	2.67	2.33	2.33	2.33	-	-	2.33	2.33	-	-	-
C201	3.00	2.50	2.83	2.50	2.50	2.00	-	3.00	-	-	2.50	2.33
C202	2.33	3.00	-	3.00	-	-	-	-	-	-	-	2.00
C203	2.67	2.67	2.67	-	-	2.67	-	-	2.33	2.33	2.67	2.00
C204	2.83	2.67	2.83	2.33	2.67	-	-	-	-	-	-	2.00
C205	3.00	2.33	2.33	2.67	2.00	2.00	-	-	2.50	-	-	2.00
C206	3.00	2.50	2.50	2.50	2.00	-	-	2.50	2.00	-	2.00	2.00
C207	3.00	3.00	3.00	2.67	2.00	2.00	-	-	2.00	-	2.00	2.00

C208	3.00	3.00	3.00	2.50	2.50	-	-	-	-	-	-	2.00
C209	2.33	2.33	2.33	2.67	2.00	-	-	2.83	2.00	2.50	2.00	2.00
C210	2.33	2.33	2.83	2.50	2.33	2.00	-	-	2.00	-	2.00	2.00
C211	3.00	3.00	2.67	2.67	3.00	2.50	-	-	2.00	-	2.50	2.00
C212	3.00	2.50	2.67	2.67	-	-	-	-	2.00	-	2.00	2.00
C213	2.50	3.00	2.50	2.67	2.50	-	-	-	-	-	-	2.00
C214	2.67	2.83	-	2.50	2.33	-	-	-	-	-	-	-
C215	3.00	3.00	3.00	2.67	3.00	2.00	-	2.83	2.00	-	2.00	2.00
C216	3.00	3.00	2.83	2.67	2.50	2.00	2.00	-	2.00	-	-	2.00
C301	2.67	2.67	2.50	3.00	-	-	-	-	2.00	-	2.00	2.00
C302	2.50	2.83	2.83	2.50	2.50	-	-	-	2.50	2.00	2.50	2.00
C303	2.50	2.67	2.33	2.83	2.00	2.67	2.00	2.83	2.50	2.50	2.67	-
C304	3.00	3.00	3.00	3.00	2.50	2.00	2.00	-	2.50	-	2.00	2.33
C305	3.00	2.50	2.83	2.67	-	2.00	-	-	-	2.00	-	-
C306	3.00	3.00	3.00	2.83	2.50	2.00	2.00	-	2.50	2.00	2.50	-
C307	3.00	3.00	3.00	2.83	3.00	2.00	-	2.83	2.50	2.00	-	2.00
C308	3.00	3.00	3.00	3.00	2.50	2.00	-	2.83	2.50	-	2.00	2.33
C309	-	-	-	-	-	2.67	2.33	2.83	2.00	2.00	-	2.00
C310	2.33	2.50	2.50	2.83	2.33	2.50	2.00	2.83	-	2.00	2.75	2.50
C311	2.33	3.00	2.83	3.00	2.33	-	-	2.83	-	-	2.50	2.50
C312	2.50	2.83	2.50	3.00	-	2.67	-	-	-	2.00	2.67	2.33
C313	2.33	2.50	2.67	2.67	-	2.67	-	-	2.00	2.67	2.67	2.50
C314	2.50	2.67	2.83	2.83	3.00	-	-	2.50	-	-	-	2.00
C315	3.00	3.00	3.00	3.00	3.00	-	-	-	2.00	2.33	-	3.00
C316	3.00	3.00	3.00	2.67	2.50	2.33	-	2.83	2.50	2.67	2.50	2.50
C317	3.00	3.00	3.00	3.00	2.50	-	-	2.83	2.50	-	-	3.00
C318	-	-	-	-	-	3.00	2.50	2.83	-	-	-	-
C401	2.33	2.83	2.50	3.00	-	2.50	-	-	-	-	2.75	2.50
C402	2.33	2.50	3.00	2.83	-	2.00	-	3.00	3.00	-	-	2.50
C403	3.00	2.50	3.00	3.00	2.83	2.67	-	2.83	2.67	-	-	2.20
C404	-	-	-	-	-	3.00	2.00	2.83	2.33	2.00	2.50	2.00

C405	3.00	2.50	2.83	3.00	2.30	2.83	2.33	3.00	2.67	2.00	2.50	2.00
C406	2.83	2.50	2.50	2.67	2.50	2.50	2.33	-	-	2.00	2.50	2.50
C407	3.00	3.00	3.00	3.00	3.00	-	-	2.83	2.00	-	-	2.50
C408	3.00	3.00	3.00	3.00	3.00	2.50	2.50	2.83	2.50	2.33	-	2.50
C409	2.67	2.33	2.83	3.00	2.25	2.50	-	-	2.50	2.00	-	2.50
C410	-	-	-	-	-	3.00	3.00	2.83	2.50	2.00	2.00	2.00
C411	2.67	2.83	2.67	3.00	2.33	-	-	-	-	-	-	2.50
C412	3.00	2.67	2.67	3.00	2.50	-	-	-	-	-	-	2.33
C413	3.00	3.00	3.00	3.00	2.50	3.00	2.50	3.00	3.00	3.00	2.20	2.00
C414	3.00	3.00	3.00	3.00	3.00	3.00	2.50	3.00	3.00	3.00	2.50	3.00

Table B.3.1.3.a: CO-PO Correlation matrix for 2017 Admitted Batch

Program level Course-POs Correlation Matrix for Admitted Batch 2016

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	-	-	-	-	-	2.33	2.33	2.33	2.33	3.00	2.50	3.00
C102	3.00	3.00	3.00	3.00	-	3.00	2.50	2.50	-	-	2.50	3.00
C103	2.83	2.67	2.60	2.60	2.50	-	3.00	3.00	-	-	2.60	2.80
C104	3.00	2.67	3.00	3.00	-	3.00	2.75	2.75	-	-	-	2.67
C105	2.67	2.67	2.50	2.50	2.50	-	-	-	2.50	-	-	2.50
C106	2.67	2.50	2.50	2.50	-	2.50	3.00	3.00	3.00	-	3.00	3.00
C107	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	2.00	3.00
C108	3.00	2.50	2.33	2.33	2.33	2.00	2.00	2.00	2.00	2.00	-	2.00
C109	3.00	2.50	2.33	2.33	2.33	2.00	2.00	2.00	2.00	2.00	-	2.00
C110	3.00	2.67	2.33	2.33	2.33	-	-	2.33	2.33	-	-	-
C111	-	-	-	-	-	2.50	2.33	2.50	2.33	2.33	2.50	3.00
C112	3.00	3.00	3.00	2.33	-	2.33	2.33	2.33	-	-	2.33	3.00
C113	3.00	3.00	2.50	2.50	-	2.50	2.50	2.50	-	-	-	2.50
C114	3.00	2.50	2.25	2.33	2.33	-	-	-	3.00	-	-	3.00
C115	-	-	2.50	-	-	2.00	2.25	2.25	2.25	-	2.33	2.33
C116	3.00	3.00	3.00	3.00	2.00	2.50	-	-	-	-	-	-

C117	2.67	2.33	-	2.50	2.50	-	2.00	-	2.00	2.00	-	2.00
C118	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	2.00	3.00
C119	3.00	2.67	2.33	2.33	2.33	-	-	2.33	2.33	-	-	-
C201	2.33	2.50	2.83	2.00	2.50	2.00	-	3.00	-	-	2.54	2.33
C202	2.33	3.00	-	2.50	-	-	-	-	-	-	-	2.00
C203	2.67	2.67	2.67	-	-	2.67	-	-	2.33	2.33	2.67	2.00
C204	2.83	2.67	2.83	2.00	2.67	-	-	-	-	-	-	2.00
C205	2.33	2.33	2.33	2.67	2.00	2.00	-	-	2.50	-	-	2.00
C206	3.00	2.50	2.50	2.50	2.00	-	-	2.50	2.00	-	2.00	2.00
C207	2.33	2.33	2.50	2.67	2.00	2.00	-	-	2.00	-	1.67	2.00
C208	3.00	3.00	2.50	2.50	2.50	-	-	-	-	-	-	2.00
C209	2.33	2.33	2.33	2.00	2.00	-	-	2.83	2.00	2.50	2.00	2.00
C210	2.33	2.33	2.83	2.00	2.33	2.00	-	-	2.00	-	2.00	2.00
C211	3.00	3.00	2.67	2.67	3.00	2.00	-	-	2.00	-	2.50	2.00
C212	3.00	2.50	2.67	2.00	-	-	-	-	2.00	-	2.00	2.00
C213	2.50	3.00	2.50	2.67	2.50	-	-	-	-	-	-	2.00
C214	2.67	2.83	-	2.00	2.33	-	-	-	-	-	-	-
C215	3.00	3.00	2.67	2.67	3.00	2.00	-	2.83	2.00	-	2.00	2.00
C216	3.00	3.00	2.83	2.67	2.50	2.00	2.00	-	2.00	-	-	2.00
C301	2.67	2.67	2.50	3.00	-	-	-	-	2.00	-	2.00	2.00
C302	2.50	2.83	2.83	2.00	2.50	-	-	-	2.50	2.00	2.50	2.00
C303	2.50	2.67	2.33	2.00	2.00	2.00	2.00	2.83	2.50	2.50	2.67	-
C304	3.00	3.00	3.00	3.00	2.50	2.00	2.00	-	2.50	-	2.00	2.33
C305	3.00	2.50	2.83	2.67	-	2.00	-	-	-	2.00	-	-
C306	3.00	3.00	3.00	2.00	2.50	2.00	2.00	-	2.50	2.00	2.50	-
C307	3.00	3.00	2.50	2.83	3.00	2.00	-	2.83	2.50	2.00	-	2.00
C308	3.00	3.00	2.50	3.00	2.50	2.00	-	2.83	2.50	-	2.00	2.33
C309	-	-	-	-	-	2.67	2.33	2.83	2.00	2.00	-	2.00
C310	2.33	2.50	2.50	2.83	2.33	2.00	2.00	2.83	-	2.00	2.75	-
C311	2.33	3.00	2.83	3.00	2.33	-	-	2.83	-	-	2.50	2.50
C312	2.50	2.83	2.50	3.00	-	2.00	-	-	-	2.00	2.67	2.33

C313	2.33	2.50	2.67	2.67	-	2.00	-	-	2.00	2.67	2.67	2.50
C314	2.50	2.67	2.83	2.83	3.00	-	-	2.00	-	-	-	2.00
C315	3.00	2.83	2.67	2.83	3.00	-	-	-	2.00	2.33	-	-
C316	3.00	2.50	3.00	2.67	2.50	2.33	-	2.83	2.50	2.67	2.50	2.50
C317	2.83	2.83	2.67	2.83	2.50	-	-	2.83	2.50	-	-	3.00
C318	-	-	-	-	-	3.00	2.50	2.83	-	-	-	-
C401	2.33	2.83	2.50	2.83	-	2.50	-	-	-	-	2.75	2.50
C402	2.33	2.50	3.00	2.83	-	2.00	-	3.00	3.00	-	-	2.50
C403	3.00	2.50	3.00	3.00	2.83	3.00	-	2.83	2.67	-	-	2.20
C404	-	-	-	-	-	3.00	2.00	2.83	2.33	2.00	2.50	2.00
C405	3.00	2.50	2.83	3.00	2.30	2.83	2.33	3.00	2.67	2.00	2.54	2.10
C406	2.83	2.50	2.50	2.50	2.50	2.50	2.33	-	-	2.00	2.50	2.50
C407	2.67	3.00	3.00	2.75	3.00	-	-	2.83	2.00	-	-	2.50
C408	2.67	3.00	3.00	2.83	3.00	2.50	2.50	2.83	2.50	2.33	-	2.50
C409	2.67	2.33	2.33	2.67	2.25	2.50	-	-	2.50	2.00	-	2.50
C410	-	-	-	-	-	3.00	3.00	2.83	2.50	2.00	2.00	2.00
C411	2.67	2.83	2.67	3.00	2.33	-	-	-	-	-	-	2.43
C412	3.00	2.67	2.67	3.00	2.50	-	-	-	-	-	-	-
C413	3.00	3.00	3.00	3.00	2.50	3.00	2.50	3.00	3.00	3.00	2.20	3.00
C414	3.00	3.00	3.00	3.00	3.00	3.00	2.50	3.00	3.00	3.00	2.50	3.00

Table B.3.1.3.b: CO-PO Correlation matrix for 2016 Admitted Batch

Program level Course-POs Correlation Matrix for 2015 Admitted Batch

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	-	-	-	-	-	2.00	2.00	2.00	2.00	3.00	2.00	3.00
C102	3.00	2.33	2.00	2.00	-	2.00	2.00	2.00	-	-	2.00	3.00
C103	3.00	2.17	2.00	2.00	2.00	2.00	2.00	2.00	-	-	-	2.00
C104	2.83	2.50	2.00	2.00	2.25	-	-	-	-	-	-	-
C105	2.83	2.00	2.33	2.00	3.00	-	-	-	2.00	-	-	1.50
C106	-	-	-	-	-	3.00	2.83	2.17	1.00	-	1.00	2.00
C107	2.67	2.00	-	2.00	2.00	-	2.00	-	2.00	-	-	2.00
C108	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	2.00	3.00
C109	3.00	2.33	3.00	2.33	3.00	-	-	1.00	2.00	-	-	1.50
C110	-	-	-	-	-	2.00	2.00	2.00	2.00	3.00	2.00	3.00
C111	3.00	2.00	2.33	2.00	2.00	2.00	2.00	-	-	-	2.00	3.00
C112	3.00	2.33	2.00	2.00	-	2.00	2.00	2.00	-	-	2.00	3.00
C113	3.00	2.00	2.50	2.00	2.00	2.20	2.20	2.33	-	-	-	2.00
C114	-	-	-	-	-	2.00	1.75	3.00	1.00	1.00	2.00	2.50
C115	2.83	2.17	2.00	2.00	-	2.00	2.00	2.00	2.00	-	2.00	3.00
C116	-	-	-	-	-	2.00	2.00	2.00	3.00	3.00	2.00	3.00
C117	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	-	2.00
C118	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	-	2.00
C119	2.33	1.33	1.00	-	2.33	-	-	-	1.00	-	-	1.50
C201	-	-	-	-	-	3.00	2.00	3.00	2.33	2.00	2.50	2.00
C202	2.50	2.50	2.50	2.33	2.00	2.33	-	-	-	2.00	-	2.50
C203	3.00	2.67	-	2.83	2.00	-	-	-	-	-	3.00	2.00
C204	2.67	2.67	2.67	-	2.50	2.67	-	-	2.33	2.50	2.67	2.67
C205	2.50	2.50	2.67	2.67	2.00	2.33	-	-	2.33	-	2.00	2.33
C206	2.50	2.50	2.83	2.33	3.00	-	-	2.50	2.00	-	-	2.00
C207	2.50	2.50	2.67	2.83	3.00	2.50	-	-	2.00	-	2.33	2.00
C208	2.50	3.00	2.67	2.67	3.00	2.67	-	-	2.67	2.67	2.67	2.67
C209	3.00	3.00	3.00	2.50	2.50	2.83	-	2.83	3.00	2.33	2.67	2.50

C210	2.33	3.00	-	2.83	-	-	-	-	-	-	-	2.00
C211	2.33	2.50	2.50	2.00	2.33	2.00	-	2.00	2.00	-	2.00	2.00
C212	2.50	2.50	2.67	2.50	2.00	-	-	-	2.00	-	2.00	2.00
C213	2.50	2.50	2.67	2.00	2.50	-	-	-	-	-	2.00	2.00
C214	2.67	2.50	2.67	3.00	-	-	-	-	2.33	2.50	-	2.33
C215	2.67	2.67	2.83	2.83	3.00	-	-	2.83	2.33	-	2.00	2.00
C216	2.50	2.67	2.83	2.67	3.00	2.50	-	-	2.33	-	2.00	2.00
C217	2.50	2.67	2.83	2.50	3.00	2.50	-	-	2.33	2.33	2.33	2.33
C301	2.33	2.67	2.33	3.00	-	-	-	-	2.00	-	-	2.00
C302	2.50	2.67	2.67	2.33	-	2.33	-	2.83	2.33	2.67	-	2.33
C303	2.33	2.50	2.50	2.50	2.67	-	-	-	-	-	2.33	-
C304	2.33	2.33	2.67	3.00	2.67	2.50	-	-	2.00	2.00	2.00	2.33
C305	2.33	2.33	2.50	2.67	2.33	-	-	2.00	2.00	2.50	-	2.33
C306	2.67	2.50	3.00	3.00	3.00	-	-	2.83	2.33	-	-	2.00
C307	2.67	2.50	2.83	2.83	3.00	2.33	-	2.83	2.33	2.00	-	2.33
C308	2.67	2.50	3.00	3.00	3.00	2.33	-	2.83	2.50	2.00	2.67	2.33
C309	3.00	3.00	3.00	3.00	2.50	2.67	2.00	2.83	3.00	2.33	2.83	2.50
C310	2.50	2.83	2.50	2.83	2.33	-	2.00	-	2.50	2.00	-	-
C311	3.00	2.67	2.50	3.00	2.67	-	-	-	2.00	-	-	2.33
C312	2.50	2.67	3.00	3.00	2.00	2.33	-	2.83	2.00	2.33	2.00	2.33
C313	2.67	2.50	2.50	2.67	2.00	2.50	-	2.83	2.67	2.00	2.83	2.33
C314	2.50	2.67	2.67	3.00	2.83	2.67	-	-	3.00	2.00	-	2.50
C315	-	-	-	-	-	3.00	2.33	2.83	2.33	2.00	2.50	2.00
C316	2.50	3.00	2.83	2.83	2.83	2.33	-	2.83	2.50	2.00	-	2.00
C317	2.33	2.67	2.83	2.67	3.00	2.33	-	2.83	2.50	2.00	2.00	2.00
C318	2.33	3.00	3.00	3.00	3.00	2.33	2.00	-	2.67	2.00	-	2.00
C401	2.33	2.50	2.33	2.83	-	2.33	-	3.00	-	-	2.00	2.00
C402	2.33	2.83	2.67	2.50	2.00	2.00	2.00	2.83	2.50	2.33	2.50	2.33
C403	2.33	2.50	2.33	2.67	-	2.00	2.00	2.83	-	-	-	2.00
C404	2.33	2.50	2.50	2.67	2.00	2.33	-	3.00	2.33	2.33	2.67	2.33
C405	2.33	2.67	2.50	3.00	2.33	2.00	2.00	-	2.50	-	2.33	2.33

C406	2.67	2.67	3.00	2.67	3.00	2.00	2.33	2.83	2.33	2.00	2.33	2.00
C407	2.50	2.67	2.50	2.83	3.00	-	-	2.83	2.33	-	-	-
C408	2.50	2.67	2.50	2.67	3.00	2.00	2.00	2.83	2.50	2.33	2.83	2.33
C409	2.50	2.67	2.67	3.00	3.00	-	2.00	2.83	2.50	-	2.33	2.00
C410	2.33	2.33	2.33	2.33	2.00	-	-	-	-	-	-	-
C411	2.33	2.33	2.33	2.00	2.00	2.00	2.33	-	2.33	2.00	2.00	2.50
C412	2.33	2.33	2.33	2.83	2.00	2.33	-	-	2.00	-	2.00	2.00
C413	-	-	-	-	-	3.00	3.00	2.50	2.50	2.33	2.00	2.00
C414	3.00	3.00	3.00	3.00	2.33	3.00	2.33	3.00	3.00	2.33	3.00	3.00

Table B.3.1.3.c: CO-PO Correlation matrix for 2015 Admitted Batch

3.1.3 Program Level Course-PSO Matrix of all Courses INCLUDING first year courses

Admitted batch 2017

Course Code	PSO 1	PSO 2
C101	2.00	-
C102	2.50	-
C103	1.83	-
C104	2.33	-
C105	2.67	2.67
C106	2.00	-
C107	2.00	-
C108	2.00	-
C109	2.00	-
C110	2.33	2.33
C111	2.00	-
C112	2.00	-
C113	2.00	-
C114	2.17	2.67
C115	-	-
C116	2.00	-
C117	2.00	-
C118	2.00	-
C119	2.33	2.33
C201	3.00	-
C202	2.67	3.00
C203	2.83	3.00
C204	2.67	2.00
C205	3.00	2.00
C206	2.83	3.00
C207	2.83	3.00
C208	2.67	2.00
C209	3.00	3.00
C210	2.33	2.00

C211	2.83	3.00
C212	2.67	3.00
C213	2.50	3.00
C214	2.50	3.00
C215	2.50	3.00
C216	2.83	3.00
C301	2.83	3.00
C302	2.67	2.00
C303	3.00	-
C304	2.50	3.00
C305	2.67	3.00
C306	2.67	3.00
C307	2.67	3.00
C308	2.83	3.00
C309	2.67	3.00
C310	3.00	3.00
C311	3.00	3.00
C312	3.00	3.00
C313	2.67	2.33
C314	3.00	2.50
C315	3.00	3.00
C316	3.00	-
C317	3.00	3.00
C318	3.00	3.00
C401	3.00	3.00
C402	3.00	3.00
C403	2.67	3.00
C404	3.00	2.00
C405	3.00	2.50
C406	3.00	3.00
C407	3.00	3.00
C408	3.00	2.00

C409	3.00	3.00
C410	3.00	3.00
C411	3.00	2.33
C412	3.00	2.00
C413	3.00	3.00
C414	3.00	3.00

Table B.3.1.3.d: CO-PSO Mapping for 2017 Admitted Batch

Admitted batch 2016

Course Code	PSO1	PSO2
C101	2.00	-
C102	2.50	-
C103	1.83	-
C104	2.33	-
C105	2.67	2.67
C106	2.00	-
C107	2.00	-
C108	2.00	-
C109	2.00	-
C110	2.33	2.33
C111	2.00	-
C112	2.00	-
C113	2.00	-
C114	2.17	2.67
C115	-	-
C116	2.00	-
C117	2.00	-
C118	2.00	-
C119	2.33	2.33
C201	2.33	-
C202	2.67	3.00
C203	2.83	3.00
C204	2.67	2.00

C205	2.33	1.50
C206	2.83	3.00
C207	2.83	3.00
C208	2.67	2.00
C209	3.00	3.00
C210	2.33	2.00
C211	2.83	3.00
C212	2.67	3.00
C213	2.33	3.00
C214	2.50	3.00
C215	2.50	3.00
C216	2.83	3.00
C301	2.83	3.00
C302	2.67	2.00
C303	2.33	-
C304	2.50	3.00
C305	2.67	3.00
C306	2.67	3.00
C307	2.67	3.00
C308	2.83	3.00
C309	2.67	3.00
C310	3.00	3.00
C311	3.00	3.00
C312	3.00	3.00
C313	2.67	2.33
C314	3.00	2.50
C315	3.00	3.00
C316	2.00	-
C317	3.00	3.00
C318	3.00	3.00
C401	3.00	3.00
C402	3.00	3.00

C403	2.67	3.00
C404	3.00	2.00
C405	3.00	2.50
C406	3.00	3.00
C407	3.00	3.00
C408	3.00	2.00
C409	3.00	3.00
C410	3.00	3.00
C411	3.00	2.33
C412	3.00	2.00
C413	3.00	3.00
C414	3.00	3.00

Table B.3.1.3.e: CO-PSO Mapping for 2016 Admitted Batch

Admitted batch 2015

Course Code	PSO1	PSO2
C101	2.00	-
C102	2.00	-
C103	2.00	-
C104	2.00	-
C105	2.33	2.33
C106	2.00	-
C107	2.00	-
C108	2.00	-
C109	2.33	2.33
C110	2.00	-
C111	2.00	-
C112	2.00	-
C113	2.00	-
C114	1.67	-
C115	2.00	-
C116	2.00	-
C117	2.00	-

C118	2.00	-
C119	2.50	1.84
C201	2.00	-
C202	2.83	2.67
C203	2.67	-
C204	2.50	-
C205	2.83	2.67
C206	2.83	2.83
C207	2.83	2.83
C208	2.83	-
C209	3.00	2.67
C210	2.50	-
C211	2.83	2.67
C212	2.83	2.83
C213	2.83	2.83
C214	2.50	2.50
C215	2.83	2.67
C216	2.83	2.67
C217	2.83	2.67
C301	2.67	2.67
C302	2.67	-
C303	2.67	2.33
C304	2.83	2.83
C305	2.83	2.83
C306	2.83	2.83
C307	2.83	2.83
C308	2.83	2.67
C309	3.00	2.67
C310	2.67	2.67
C311	2.83	2.67
C312	2.67	2.83
C313	2.83	2.83

C314	2.67	2.83
C315	2.00	-
C316	2.83	2.33
C317	2.83	2.67
C318	2.83	2.83
C401	2.83	2.83
C402	2.83	2.33
C403	3.00	2.67
C404	3.00	2.83
C405	3.00	2.83
C406	3.00	2.83
C407	2.83	2.83
C408	2.83	2.67
C409	3.00	2.33
C410	2.67	2.00
C411	2.83	2.33
C412	2.83	2.00
C413	2.00	-
C414	3.00	3.00

Table B.3.1.3.f: CO-PSO Mapping for 2015 Admitted Batch

3.2. Attainment of Course Outcomes (50)

3.2.1. Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

(Examples of data collection processes may include, but are not limited to, specific exam/tutorial questions, assignments, laboratory tests, project evaluation, student portfolios (A portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period), internally developed assessment exams, project presentations, oral exams etc.)

Regulation-R19 (2019 Admitted Batch)

Vignan's Institute of Engineering for Women is affiliated to JNTUK, Kakinada and hence follows R19 Regulations for students admitted from the academic year 2019-20. As per R19 Regulation, B.Tech program of JNTUK, the various assessment tools used to assess the evaluation of Course Outcomes are Midterm examinations, Assignments, Online quiz

examination, Project work, Seminars, Laboratory internal examination, Day-to-day evaluation of lab courses, End semester examinations of theory and lab etc.

The performance of every student is assessed by the evaluation of marks obtained in theory, laboratory, seminar, and project examinations. The performance of a student in each semester shall be evaluated course-wise with a maximum of 100 marks for the theory subject and 50 marks for the practical course. The project work is divided into two parts, 50 marks for project work-1, and Project work-2 shall be evaluated for 150 marks, 50 marks for mini-Project/Internship/Industrial Training/ Skill Development programs/Research Project.

The attainment process for the evolution of course outcomes is based on taking 80% of direct attainment and 20% of indirect attainment. The direct attainment includes evaluation of course outcome attainment through internal and external attainment like marks in theory courses, laboratory courses, project. The weightage of indirect attainment is 20% taken from the Course end survey.

Direct Attainment:

Theory Courses:

- For theory courses, the distribution shall be 25 marks for internal evaluation and 75 marks for the end examinations. For theory courses, during the semester there shall be 2 midterm exams.
- The weightage of internal marks is 25 consists of Descriptive (10 Marks), Assignment (05 Marks) (Theory, Design, Analysis, Simulation, Algorithms, Drawing, etc. as the case may be) Online quiz exam (10 Marks) (conducted at the college level with 20 multiple choice question with a weightage of ½ mark each).
- The online quiz examination is for 20 minutes duration and the subjective examination is for 90 minutes of duration. Each subjective type test question paper shall contain 3 questions and all questions need to be answered.
- The online quiz examination conducted for 10 marks and subjective examination conducted for 10 marks is to be added to the assignment marks of 5 for finalizing internal marks for 25.
- As the syllabus is framed for 5 units, the 1st mid examination (both online quiz and Subjective) is conducted in 1-3 units and second test in 3-5 units of each course in a semester.
- Final 25 marks are calculated from both mid examinations as 80% marks from the best of both mid marks and 20% marks from the other.

- The end semester examination is conducted by JNTUK covering the topics of all units for 75 marks. The question paper contains 10 questions. The student has to answer 5 out of 10 questions and all questions carry a weightage of 15 marks each.

Laboratory Courses:

- For laboratory courses, there shall be continuous evaluation during the semester for 20 internal marks and 30 end examination marks.
- The internal 20 marks shall be awarded as follows: day-to-day evaluation (5 marks), record (5 marks) and the remaining (10 marks) will be awarded by conducting an internal laboratory exam.
- The end examination shall be conducted by the concerned faculty and external examiner appointed by JNTUK.

Project Work:

- Major Project (Part 1): Out of a total of 50 marks for the project work-1, 20 marks shall be for internal evaluation and 30 marks for the end semester examination. The end semester examination (Viva–Voice) shall be conducted by the committee. The committee consists of an external examiner appointed by JNTUK, Head of the Department and project supervisor.
- Major Project (Part 2): Out of a total of 150 marks for the project work, 60 marks shall be for internal evaluation and 90 marks for the end semester examination. The end semester examination (Viva–Voice) shall be conducted by the committee. The committee consists of an external examiner appointed by JNTUK, Head of the Department and project supervisor.
- For mini-Project/Internship/Industrial Training/ Skill Development programs/Research Project 50 marks for the end semester examination. The end semester examination (Viva–Voice) shall be conducted by the committee. The committee consists of an external examiner appointed by JNTUK, Head of the Department and project supervisor.

Indirect Attainment:

- At the end of every semester, a Course end survey is taken for every course. 20% weightage of indirect attainment is determined based on the Course end Survey.

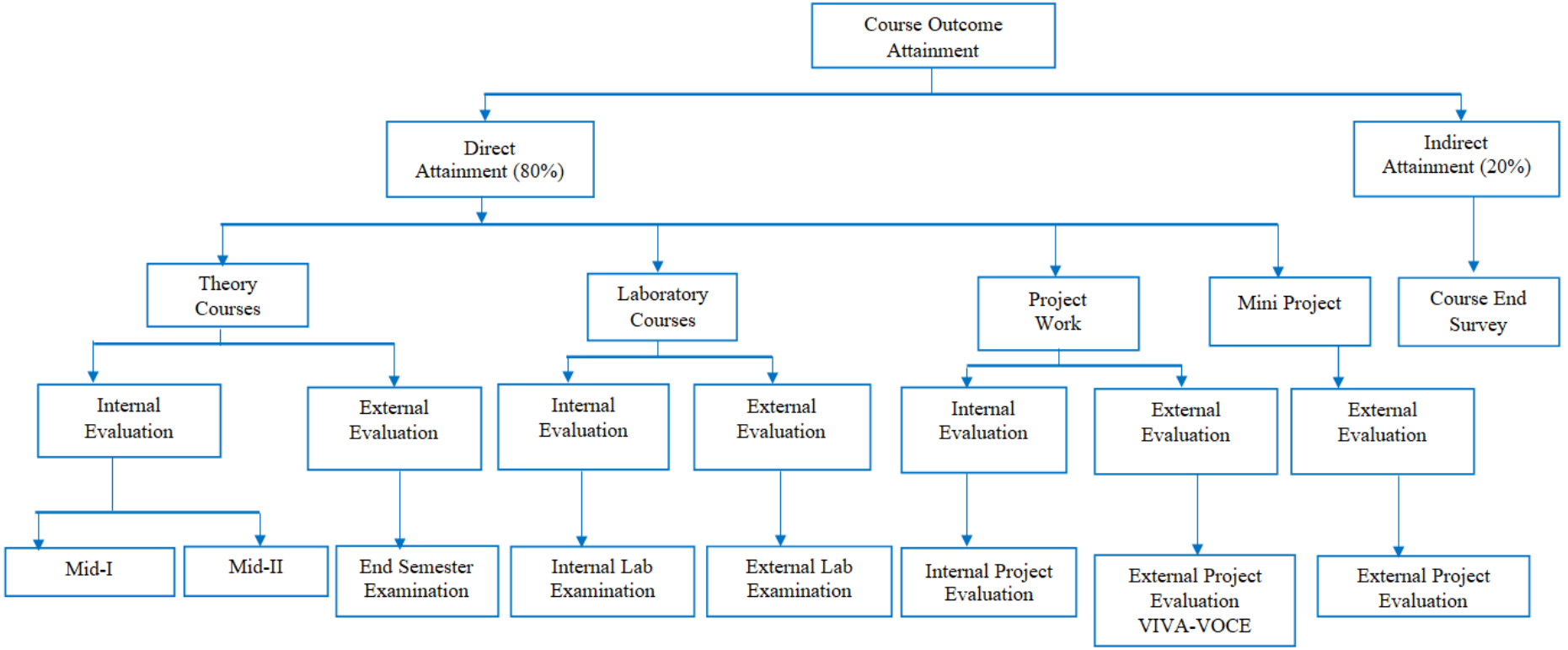


Figure B.3.2.1.a: Assessment Process for evolution of Course Outcomes

Regulation-R16 (2016, 2017 and 2018 Admitted batches)

Vignan's Institute of Engineering for Women is affiliated to JNTUK, Kakinada and hence follows R16 Regulations for students admitted from academic year 2016-17 to 2018-19.As per R16 Regulation, B.Tech program of JNTUK, the various assessment tools used to assess the evaluation of Course Outcomes are Midterm examinations, Assignments, Online quiz examination, Project work, Seminars, Laboratory internal examination, Day-to-day evaluation of lab courses, End semester examinations of theory and lab etc.

The performance of every student is assessed by the evaluation of marks obtained in theory, laboratory, seminar and project examinations. The performance of a student in each semester shall be evaluated course–wise with a maximum of 100 marks for theory subject and 75 marks for the practical course. The project work shall be evaluated for 200 marks and 50 marks for seminar.

The attainment process for the evolution of course outcomes is based on taking 80% of direct attainment and 20% of indirect attainment. The direct attainment includes evaluation of course outcome attainment through internal and external attainment like marks in theory courses, laboratory courses, project and seminar. The weightage of indirect attainment is 20% taken from the Course end survey.

Direct Attainment:

Theory Courses:

- For theory courses, the distribution shall be 30 marks for internal evaluation and 70 marks for the semester end-examinations. For theory courses, during the semester there shall be 2 midterm exams.
- The weightage of internal marks is 30 consists of Descriptive (15 Marks), Assignment (05 Marks) (Theory, Design, Analysis, Simulation, Algorithms, Drawing, etc. as the case may be) Online quiz exam (10 Marks) (conducted at the college level with 20 multiple choice question with a weightage of ½ mark each).
- The online quiz examination is for 20 minutes duration and the subjective examination is for 90 minutes of duration. Each subjective type test question paper shall contain 3 questions and all questions need to be answered.
- The online quiz examination conducted for 10 marks and subjective examination conducted for 15 marks is to be added to the assignment marks of 5 for finalizing internal marks for 30.

- As the syllabus is framed for 6 units, the 1st mid examination (both online quiz and Subjective) is conducted in 1-3 units and second test in 4-6 units of each course in a semester.
- Final 30 marks is calculated from both mid examinations as 80% marks from best mid marks and 20% marks from second best mid examination.
- The end semester examination is conducted by JNTUK covering the topics of all units for 70 marks. Part – A contains a mandatory question (Brainstorming / Thought provoking / case study) for 22 marks. Part – B has 6 questions (one from each unit). The student has to answer 3 out of 6 questions in Part – B and carries a weightage of 16 marks each.

Laboratory Courses:

- For laboratory courses, there shall be continuous evaluation during the semester for 25 internal marks and 50 end examination marks.
- The internal 25 marks shall be awarded as follows: day-to-day evaluation (10 marks), record (5 marks) and the remaining (10 marks) will be awarded by conducting an internal laboratory exam. The end examination shall be conducted by the concerned faculty and external examiner appointed by JNTUK.

Project Work:

- Out of a total of 200 marks for the project work, 60 marks shall be for internal evaluation and 140 marks for the end semester examination. The end semester examination (Viva–Voice) shall be conducted by the committee. The committee consists of an external examiner appointed by JNTUK, Head of the Department and project supervisor.
- The evaluation of project work shall be conducted at the end of the IV year. The internal evaluation shall be on the basis of three seminars given by each student on the topic of the project and evaluated by an internal committee.

Seminar Course:

- For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his/her understanding over the topic and submit it to the department, which shall be evaluated by the evaluation committee consisting of Head of the department, seminar supervisor and a senior faculty member.
- The seminar report shall be evaluated for 50 marks. There shall be no external examination for the seminar.

Indirect Attainment:

- At the end of every semester, a Course end survey is taken for every course. 20% weightage of indirect attainment is determined based on the Course end Survey.

Regulation- R13 (2015, 2014 and 2013 Admitted Batch)

Vignan's Institute of Engineering for Women is affiliated to JNTUK, Kakinada and hence follows R13 Regulations for students admitted from academic year 2013-14 to 2015-16.As per R13 Regulation, B.Tech program of JNTUK, the various assessment tools used to assess the evaluation of Course Outcomes are Midterm examinations, Assignments, Online quiz examination, Project work, Seminars, Laboratory internal examination, Day-to-day evaluation of lab courses, End semester examinations of theory and lab etc.

The performance of every student is assessed by the evaluation of marks obtained in theory, laboratory, seminar and project examinations. The performance of a student in each semester shall be evaluated course–wise with a maximum of 100 marks for theory subject and 75 marks for the practical course. The project work shall be evaluated for 200 marks and 50 marks for seminar.

The attainment process for the evolution of course outcomes is based on taking 80% of direct attainment and 20% of indirect attainment. The direct attainment includes evaluation of course outcome attainment through internal and external attainment like marks in theory courses, laboratory courses, project and seminar. The weightage of indirect attainment is 20% taken from the Course end survey.

Direct Attainment:

Theory Courses:

- For theory courses, the distribution shall be 30 marks for internal evaluation and 70 marks for the semester end-examinations. For theory courses, during the semester there will be 2 midterm exams.
- The weightage of internal marks is 30 consists of Descriptive (15 Marks), Assignment (05 Marks) (Theory, Design, Analysis, Simulation, Algorithms, Drawing, etc. as the case may be) Online quiz exam (10 Marks) (conducted at the college level with 20 multiple choice question with a weightage of ½ mark each).
- The online quiz examination is for 20 minutes duration and the subjective examination is for 90 minutes of duration. Each subjective type test question paper shall contain 3 questions and all questions need to be answered.

- The online quiz examination conducted for 10 marks and subjective examination conducted for 15 marks is to be added to the assignment marks of 5 for finalizing internal marks for 30. The better of the two tests will be taken for internal marks.
- As the syllabus is framed for 6 units, the 1st mid examination (both online quiz and Subjective) is conducted in 1-3 units and second test in 4-6 units of each course in a semester.
- The end semester examination is conducted by JNTUK covering the topics of all units for 70 marks. Part – A contains a mandatory question (Brainstorming / Thought provoking / case study) for 22 marks. Part – B has 6 questions (one from each unit). The student has to answer 3 out of 6 questions in Part – B and carries a weightage of 16 marks each.

Laboratory Courses:

- For laboratory courses, there shall be continuous evaluation during the semester for 25 internal marks and 50 end examination marks.
- The internal 25 marks shall be awarded as follows: day-to-day evaluation (10 marks), record (5 marks) and the remaining (10 marks) will be awarded by conducting an internal laboratory exam.
- The end examination shall be conducted by the concerned faculty and external examiner appointed by JNTUK.

Project Work:

- Out of a total of 200 marks for the project work, 60 marks shall be for internal evaluation and 140 marks for the end semester examination. The end semester examination (Viva–Voice) shall be conducted by the committee. The committee consists of an external examiner appointed by JNTUK, Head of the Department and project supervisor.
- The evaluation of project work shall be conducted at the end of the IV year. The internal evaluation shall be on the basis of three seminars given by each student on the topic of the project and evaluated by an internal committee.

Seminar Course:

- For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his/her understanding over the topic and submit it to the department, which shall be evaluated by the evaluation committee consisting of Head of the department, seminar supervisor and a senior faculty member.
- The seminar report shall be evaluated for 50 marks. There shall be no external examination for the seminar.

Indirect Attainment:

- At the end of every semester, a Course end survey is taken for every course. 20% weightage of indirect attainment is determined based on the Course end Survey.

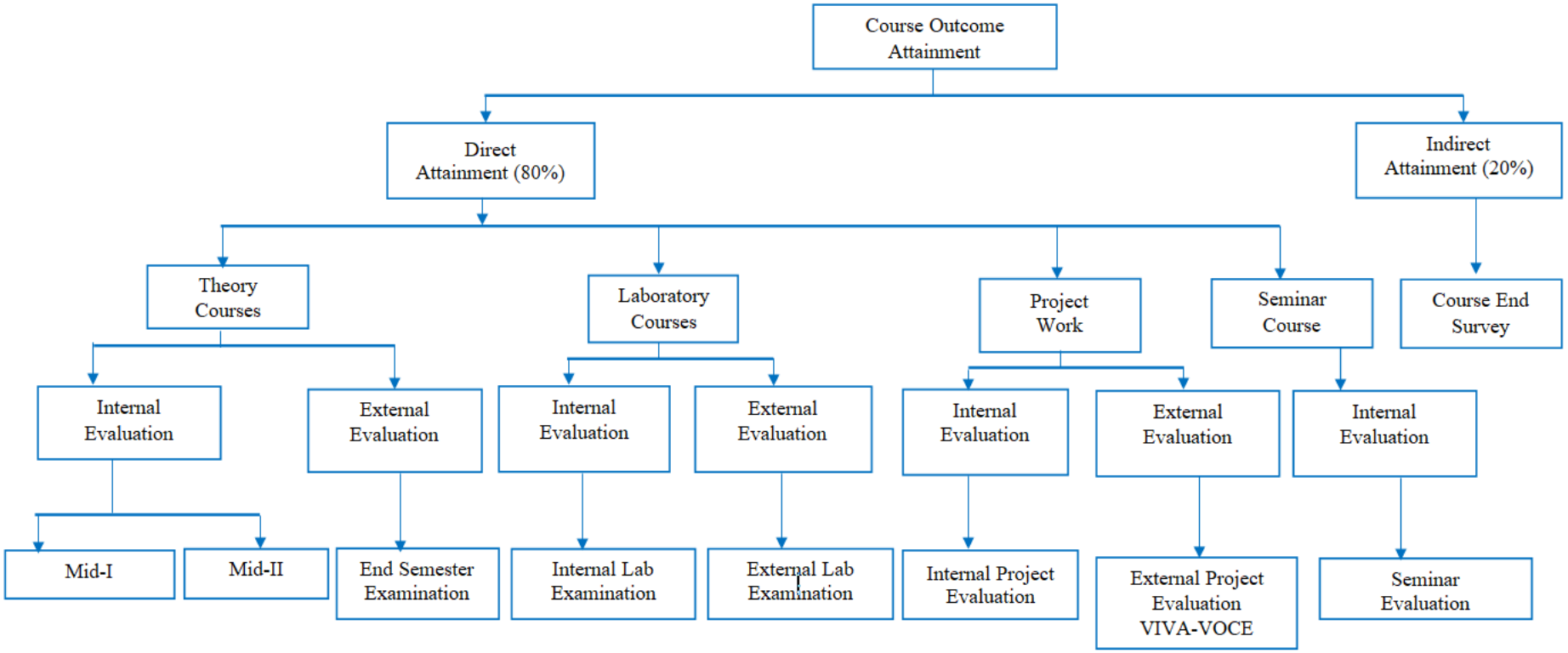


Figure B.3.2.1.b: Assessment Process for evaluation of Course Outcomes

3.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

Attainment Calculation:

The overall attainment calculation of course outcomes of all courses is divided into two methods direct attainment and indirect attainment.

The tools used in direct assessment are the marks obtained in internal and end semester examinations. The internal marks include mid marks (Descriptive, Quiz and Assignment), Laboratory marks (Day-to-day evaluation, Internal Marks, Record), Seminar and Project marks. The marks obtained in the end semester examination are considered as external marks.

For every course, depending upon the course outcomes defined, 4 to 6 survey questions are prepared to collect the course end survey from the students, a tool in indirect attainment.

The weightage of each CO is the sum of marks obtained in each question of Descriptive exam, 1/3 part of Online quiz marks and 1/3 part of each assignment marks respectively.

In direct attainment, a target value is fixed for calculating internal and end semester examination course attainment. The target value is converted into a percentage, which is achieved by the course as shown in Figure B.3.2.2.b. The target value fixed is 60% for internal examination and 40% for End semester examination.

A sample course attainment calculation for the course Formal Language and Automata Theory is shown below.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Name: Formal Langauge and Automata Theory	Course Code:C214	Admitted Batch: 2013-17
Year/ Sem : II B TECH II SEM	Regulation: R13	Academic Year:2014-15
Course Coordinator : Sk. Rahimunnisa		

		INTERNAL																EXTERNAL
		MID 1								MID 2								
S.No	Reg. No.	Descriptive			Assignment			Quiz 1 (CO1: CO3)	Total (CO1: CO3)	Descriptive			Assignment			Quiz 2 (CO4: CO6)	Total (CO4: CO6)	University end exam (CO1:CO6)
		Q1 (CO1)	Q2 (CO2)	Q3 (CO3)	A1 (CO1)	A2 (CO2)	A3 (CO3)			Q1 (CO4)	Q2 (CO5)	Q3 (CO6)	A4 (CO4)	A5 (CO5)	A6 (CO6)			
		5	5	5	5	5	5	10	30 M	5	5	5	5	5	5	10	30 M	70M
1	13NM1A0501				4	4	4		4	4	4	3	5	4	4	3	18	33
2	13NM1A0502	5	4	3	4	4	4	6	22	5	5	5	4	4	4	4	23	54
3	13NM1A0503	4	4	2	5	4	5	4	19	2	5	4	5	5	5	4	20	43
4	13NM1A0504	1	2	2	4	4	4	5	14	3	3	4	5	4	4	4	18	33
5	13NM1A0505	2	2	4	4	4	4	2	14	4	4	1	4	4	4	5	18	38
6	13NM1A0507	5	3	5	4	4	4	5	22	3	2	2	5	4	4	4	15	52
7	13NM1A0508	5	5	3	5	5	5	4	22	5	5	5	4	4	5	4	23	47
8	13NM1A0509	4	3	5	5	4	5	7	24	5	5	3	5	4	5	6	24	54
9	13NM1A0510	5	4	4	5	5	5	7	25	5	4	5	5	5	5	6	25	30
10	13NM1A0511	3	3	5	5	5	5	5	21	5	2	3	5	5	4	3	18	54
11	13NM1A0512	5	5	4	5	5	5	4	23	5	5	5	5	4	5	6	26	45
12	13NM1A0513	4	4	4	5	5	5	6	23	3	3	4	5	5	4	5	20	45
13	13NM1A0514	4	5	3	5	5	5	3	20	5	5	4	5	4	5	3	22	45
14	13NM1A0515	4	4	4	5	5	5	4	21	5	5	5	5	5	4	4	24	59

Class Average Marks of MID 1	18.00		Class Average Marks of MID 2	18.00	
Target	60%		Target	60%	
			University End ExamTarget marks is		28

Knowledge Levels MID 1					
R	U	P	R	U	P
CO1	CO2	CO3	CO1	CO2	CO3

Knowledge Levels MID II					
R	U	P	R	U	P
CO1	CO2	CO3	CO1	CO2	CO3

Figure B.3.2.2.a: Sample Internal Marks Assessment

The marks secured from the Mid Term Examinations, in theory, Laboratory Examinations, Project and Seminar are mapped with Course Outcome of Internal assessment as shown in Figure B.3.2.2.b

The target level is obtained from the number of students who attained the set target. Attainment level calculated as below:

Attainment Level 1: 60% of students scoring more than target level marks or set attainment level in the final examination

Attainment Level 2: 70% of students scoring more than target level marks or set attainment level in the final examination

Attainment Level 3: 80% of students scoring more than target level marks or set attainment level in the final examination

If Attainment value is <60%---0 means atleast 60% of the total students didn't achieve the target marks for a course then there is no level of attainment achieved.

Now, based upon the set target, the number of students attained for every Course Outcome is assessed and the attained levels are calculated.

		INTERNAL						EXTERNAL
		MID 1			MID 2			University end exam
S.No	Regd.No.	CO1	CO2	CO3	CO4	CO5	CO6	CO1:CO6
		10M	10M	10M	10M	10M	10M	70M
1	13NM1A0501	1.3	1.33	1.33	6.7	6.33	5.33	33
2	13NM1A0502	8.3	7.33	6.33	7.7	7.67	7.67	54
3	13NM1A0503	7.0	6.67	5.00	5.0	8.00	7.00	43
4	13NM1A0504	4.0	5.00	5.00	6.0	5.67	6.67	33
5	13NM1A0505	4.0	4.00	6.00	7.0	7.00	4.00	38
6	13NM1A0507	8.0	6.00	8.00	6.0	4.67	4.67	52
7	13NM1A0508	8.0	8.00	6.00	7.7	7.67	8.00	47
8	13NM1A0509	8.0	6.67	9.00	8.7	8.33	6.67	54
9	13NM1A0510	9.0	8.00	8.00	8.7	7.67	8.67	30
10	13NM1A0511	6.3	6.33	8.33	7.7	4.67	5.33	54
11	13NM1A0512	8.0	8.00	7.00	8.7	8.33	8.67	45
12	13NM1A0513	7.7	7.67	7.67	6.3	6.33	7.00	45
13	13NM1A0514	6.7	7.67	5.67	7.7	7.33	6.67	45
14	13NM1A0515	7.0	7.00	7.00	8.0	8.00	7.67	59
15	13NM1A0516	8.7	8.67	8.67	8.0	7.67	8.00	57
16	13NM1A0517	8.3	7.33	8.33	8.0	8.00	7.67	55
17	13NM1A0518	6.7	6.67	7.67	8.3	8.00	5.33	32
19	13NM1A0520	7.7	7.00	4.33	7.7	7.67	4.67	52
20	13NM1A0521	8.7	8.67	8.67	8.3	8.67	3.67	51
21	13NM1A0522	7.7	7.67	6.67	7.7	7.67	7.67	37
22	13NM1A0523	8.3	8.00	8.00	8.0	8.00	8.00	60
23	13NM1A0524	4.7	6.67	4.67	1.7	1.33	1.33	50
24	13NM1A0525	6.3	6.33	8.00	6.3	5.33	6.33	48
25	13NM1A0526	7.7	6.00	5.00	4.3	5.00	6.00	39
26	13NM1A0527	8.0	6.00	8.00	7.7	7.67	7.67	60
27	13NM1A0528	1.0	1.00	1.00	7.7	4.33	7.67	34
28	13NM1A0529	6.7	5.33	4.33	5.7	4.67	5.67	42
29	13NM1A0530	6.7	6.67	5.67	7.7	7.33	6.33	40
30	13NM1A0531	8.3	8.33	8.33	8.3	8.33	8.00	69

Class Average Marks of MID 1	18.00	
Target is	60%	
Bench Mark	Target Students	Target level
If 60 % students got more than Target	92	1
If 70 % students got more than Target	108	2
If 80 % students got more than Target	123	3

Attained for COs	Students attained	Attained level
Students attained CO1	118	2
Students attained CO2	114	2
Students attained CO3	98	1

Class Average Marks of MID 2	18.00	
Target is	60%	
Attained for COs	Students attained	Attained level
Students attained CO1	103	1
Students attained CO2	103	1
Students attained CO3	105	1

University Exam Assessment	70	
Target is	40%	
Target Mark	28	
No of students attended	154	
No. of students attained	151	
Students above the Target	Target Students	Target level
University Exam	151	3

Indirect Assessment - Average for CO's					
CO1	CO2	CO3	CO4	CO5	CO6
2.565	2.273	2.956	2.86	2.301	2.535

Figure B.3.2.2.b: Sample Course Outcomes Assessment

The indirect attainment is calculated by using the outcome of the Course End Survey as shown in Figure B.3.2.2.c. The average value of each course outcome is considered.

Indirect Assessment - Feedback from students

Course Name: Formal Langauge and Automata Theory	Course Code:C214	Admitted Batch: 2013-2017
Year/ Sem : II B TECH II SEM	Regulation: R13	Academic Year:2014-15
Course Coordinator : Sk. Rahimunnisa		

S.No.	Reg.No.	Student Name	CO1	CO2	CO3	CO4	CO5	CO6
1	13NM1A0501	ADAPA LAVANYA	3	2	3	2	2	3
2	13NM1A0502	ADARI BHARGAVI	3	3	1	3	3	1
3	13NM1A0503	ADDALA SARVANI	2	3	3	2	3	3
4	13NM1A0504	ADIREDDI DEVI PRIYANKA	3	3	1	3	3	1
5	13NM1A0505	ADIREDDY ANITHA	2	2	1	2	2	1
6	13NM1A0507	ANDANAPALLI SRIVATSAVI	3	3	3	3	3	3
7	13NM1A0508	ANDRA DIVYA SRI KRANTHI	3	3	1	3	3	2
8	13NM1A0509	ARISAM SRIMANJU	1	3	2	1	3	2
9	13NM1A0510	ARREPU SRAVYA	3	1	2	3	1	2
10	13NM1A0511	AVUTHU PRATYUSHA	2	2	2	1	1	1
11	13NM1A0512	BALINENI JASMITHA	3	3	3	3	3	3
12	13NM1A0513	BALIREDDY SRUJANA	3	2	1	3	2	1
13	13NM1A0514	BANDARU MEENA	3	2	3	3	2	3
14	13NM1A0515	BATTULA BALA JYOTHI RAVALI	3	1	3	1	1	3
15	13NM1A0516	BAYYAPU PRIYA BHARGAVI	3	2	3	1	2	3
16	13NM1A0517	BHUPATHIRAJU KEERTHI	3	3	3	3	3	3
17	13NM1A0518	BODDETI VINODINI	3	1	1	3	1	1
18	13NM1A0519	BOKAM BHARATHI	2	1	2	2	1	2

Strongly Agree	3
Agree	2
Neutral	1
Disagree	0

Figure B.3.2.2.c: Sample Course End Survey

The course attainment is calculated based on 80% of direct attainment and 20% of Indirect attainment as shown in Figure B.3.2.2.d.

Course Attainment Calculation

Course Name: Formal Langauge and Automata Theory	Course Code:C214	Admitted Batch: 2013-2017
Year/ Sem : II B TECH II SEM	Regulation: R13	Academic Year:2014-15
Course Coordinator : Sk. Rahimunnisa		

Direct Attainment			Indirect Attainment	
	Internal	University	Feedback	
CO1	2	3	CO1	2.5649
CO2	2	3	CO2	2.723
CO3	1	3	CO3	2.956
CO4	1	3	CO4	2.86
CO5	1	3	CO5	2.301
CO6	1	3	CO6	2.53
Average	1.33	3.00	Final Indirect Attainment	2.6563
Weightage	30%	70%		
Attainment	0.4	2.1		
Final Direct Attainment	2.5			
Weightage	80%		20%	
Attainment	2		0.53	
Course Attainment	2.53			

Figure B.3.2.2.d Sample Course Attainment Calculation

After fixing the target level for individual courses, based on the procedure described above the course attainment for outgoing batches in 2016-17 admitted batch is shown in the below tables.

Admitted Batch 2017

Course	Course Name	Direct Attainment	Indirect Attainment	Course Attainment
C101	English – I	2.32	0.57	2.89
C102	Mathematics - I	2.04	0.56	2.60
C103	Mathematics – II (Mathematical Methods)	1.84	0.56	2.40
C104	Applied Physics	1.92	0.54	2.46
C105	Computer Programming	2.12	0.56	2.68
C106	Engineering Drawing	2.32	0.58	2.90
C107	English - Communication Skills Lab - 1	2.40	0.57	2.97
C108	Applied / Engineering Physics Lab	2.40	0.56	2.96
C110	Computer Programming Lab	2.40	0.56	2.96
C111	English – II	2.04	0.55	2.59
C112	Mathematics - III	2.28	0.57	2.85
C113	Applied Chemistry	2	0.56	2.56
C114	Object Oriented Programming through C++	2.24	0.55	2.79
C115	Environmental Studies	2.32	0.58	2.90
C116	Engineering Mechanics	1.84	0.57	2.41
C117	Applied / Engineering Chemistry Laboratory	2.40	0.56	2.96
C118	English - Communication Skills Lab – 2	2.40	0.58	2.98
C119	Object Oriented Programming Lab	2.40	0.56	2.96
C201	Statistics with R Programming	1.44	0.53	1.97
C202	Mathematical Foundations of Computer Science	0.92	0.53	1.45
C203	Digital Logic Design	1.00	0.53	1.53
C204	Python Programming	0.56	0.53	1.09
C205	Data Structures through C++	2.20	0.53	2.73
C206	Computer Graphics	1.64	0.53	2.17
C207	Data Structures through C++Lab	2.40	0.53	2.93
C208	Python Programming Lab	2.40	0.53	2.93
C209	Software Engineering	1.12	0.53	1.65
C210	Java Programming	1.76	0.53	2.29
C211	Advanced Data Structures	1.84	0.53	2.37
C212	Computer Organization	1.48	0.53	2.01
C213	Formal Languages and Automata Theory	1.72	0.53	2.25
C214	Principles of Programming Languages	1.48	0.53	2.01
C215	Advanced Data Structures Lab	2.40	0.53	2.93
C216	Java Programming Lab	2.40	0.53	2.93
C301	Compiler Design	2.08	0.54	2.62

C302	Unix Programming	1.96	0.57	2.53
C303	Object Oriented Analysis and Design using UML	2.00	0.53	2.53
C304	Database Management Systems	2.00	0.57	2.57
C305	Operating Systems	2.12	0.57	2.69
C306	Unified Modeling Lab	2.40	0.57	2.97
C307	Operating System & Linux Programming Lab	2.40	0.57	2.97
C308	Database Management System Lab	2.40	0.57	2.97
C310	Computer Networks	2.04	0.54	2.58
C311	Data Warehousing and Mining	1.92	0.56	2.48
C312	Design and Analysis of Algorithms	2.20	0.57	2.77
C313	Software Testing Methodologies	2.12	0.54	2.66
C314	Artificial Intelligence	2.00	0.56	2.56
C315	Network Programming Lab	2.40	0.57	2.97
C316	Software Testing Lab	2.40	0.57	2.97
C317	Data Warehousing and Mining Lab	2.40	0.57	2.97
C401	Cryptography and Network Security	2.16	0.57	2.73
C402	Software Architecture & Design Patterns	2.12	0.53	2.65
C403	Web Technologies	1.96	0.54	2.50
C404	Managerial Economics and Financial Analysis	2.36	0.53	2.89
C405	Big Data Analytics	2.08	0.54	2.62
C406	Cloud Computing	2.16	0.54	2.70
C407	Software Architecture& Design Patterns Lab	2.40	0.57	2.97
C408	Web Technologies Lab	2.40	0.57	2.97
C409	Distributed Systems	2.00	0.56	2.56
C410	Management Science	2.32	0.58	2.90
C411	Machine Learning	2.00	0.57	2.57
C412	Concurrent and Parallel Programming	2.00	0.58	2.58
C413	Seminar	2.40	0.57	2.97
C414	Project	2.40	0.57	2.97

Table B.3.2.2.a: Course Attainments of 2017 Admitted batch students

Admitted Batch 2016

Course	Course Name	Direct Attainment	Indirect Attainment	Course Attainment
C101	English – I	1.88	0.59	2.47
C102	Mathematics - I	1.80	0.57	2.37

C103	Mathematics – II (Mathematical Methods)	1.80	0.53	2.33
C104	Applied Physics	1.72	0.57	2.29
C105	Computer Programming	1.88	0.55	2.43
C106	Engineering Drawing	2.40	0.57	2.97
C107	English - Communication Skills Lab - 1	2.40	0.53	2.93
C108	Applied / Engineering Physics Lab	2.40	0.57	2.97
C110	Computer Programming Lab	2.40	0.58	2.98
C111	English – II	1.96	0.56	2.52
C112	Mathematics - III	1.92	0.56	2.48
C113	Applied Chemistry	1.84	0.56	2.40
C114	Object Oriented Programming through C++	2.20	0.57	2.77
C115	Environmental Studies	2.16	0.56	2.72
C116	Engineering Mechanics	1.68	0.59	2.27
C117	Applied / Engineering Chemistry Laboratory	2.40	0.59	2.99
C118	English Communication Skills Lab-2	2.40	0.58	2.98
C119	Object Oriented Programming Lab	2.40	0.58	2.98
C201	Statistics with R Programming	1.84	0.53	2.37
C202	Mathematical Foundations of Computer Science	2.28	0.50	2.78
C203	Digital Logic Design	2.24	0.53	2.77
C204	Python Programming	2.32	0.53	2.85
C205	Data Structures through C++	2.00	0.53	2.53
C206	Computer Graphics	2.00	0.53	2.53
C207	Data Structures through C++Lab	2.40	0.53	2.93
C208	Python Programming Lab	2.40	0.53	2.93
C209	Software Engineering	2.00	0.53	2.53
C210	Java Programming	2.00	0.53	2.53
C211	Advanced Data Structures	1.96	0.53	2.49
C212	Computer Organization	2.00	0.53	2.53
C213	Formal Languages and Automata Theory	2.04	0.53	2.57
C214	Principles of Programming Languages	2.28	0.53	2.81
C215	Advanced Data Structures Lab	2.40	0.53	2.93
C216	Java Programming Lab	2.40	0.53	2.93
C301	Compiler Design	2.12	0.53	2.65
C302	Unix Programming	2.16	0.53	2.69
C303	Object Oriented Analysis and Design using UML	2.36	0.53	2.89
C304	Database Management Systems	1.84	0.53	2.37

C305	Operating Systems	2.32	0.53	2.85
C306	Unified Modeling Lab	2.40	0.53	2.93
C307	Operating System & Linux Programming Lab	2.40	0.53	2.93
C308	Database Management System Lab	2.40	0.57	2.97
C310	Computer Networks	2.12	0.53	2.65
C311	Data Warehousing and Mining	2.20	0.53	2.73
C312	Design and Analysis of Algorithms	2.28	0.53	2.81
C313	Software Testing Methodologies	2.20	0.53	2.73
C314	Artificial Intelligence	2.28	0.53	2.81
C315	Network Programming Lab	2.40	0.57	2.97
C316	Software Testing Lab	2.40	0.53	2.93
C317	Data Warehousing and Mining Lab	2.40	0.53	2.93
C401	Cryptography and Network Security	2.00	0.53	2.53
C402	Software Architecture & Design Patterns	2.20	0.53	2.73
C403	Web Technologies	1.88	0.53	2.41
C404	Managerial Economics and Financial Analysis	2.36	0.53	2.89
C405	Big Data Analytics	2.20	0.53	2.73
C406	Cloud Computing	1.80	0.53	2.33
C407	Software Architecture& Design Patterns Lab	2.40	0.53	2.93
C408	Web Technologies Lab	2.40	0.53	2.93
C409	Distributed Systems	2.36	0.53	2.89
C410	Management Science	2.40	0.53	2.93
C411	Machine Learning	1.92	0.53	2.45
C412	Concurrent and Parallel Programming	2.04	0.53	2.57
C413	Seminar	2.40	0.57	2.97
C414	Project	2.40	0.57	2.97

Table B.3.2.2.b: Course Attainments of 2016 Admitted batch students

Admitted Batch 2015

Course	Course Name	Direct Attainment	Indirect Attainment	Course Attainment
C101	English – I	1.92	0.51	2.43
C102	Mathematics - I	1.24	0.51	1.75
C103	Engineering Chemistry	1.92	0.51	2.43
C104	Engineering Mechanics	1.36	0.51	1.87
C105	Computer Programming	2.00	0.51	2.51
C106	Environmental Studies	1.76	0.51	2.27
C107	Engineering Chemistry Laboratory	2.40	0.49	2.89
C108	English Communication Skills Lab - I	2.40	0.49	2.89

C109	C Programming Lab	2.40	0.49	2.89
C110	English – II	2.28	0.51	2.79
C111	Mathematics - II	1.92	0.51	2.43
C112	Mathematics - III	1.32	0.51	1.83
C113	Engineering Physics	1.44	0.51	1.95
C114	Professional Ethics and Human Values	2.40	0.51	2.91
C115	Engineering Drawing	2.04	0.51	2.55
C116	English Communication Skills Lab - II	2.40	0.49	2.89
C117	Engineering Physics Lab	2.40	0.49	2.89
C119	Engineering Workshop & IT Workshop	2.40	0.49	2.89
C201	Managerial Economics and Financial Analysis	1.64	0.53	2.17
C202	Object Oriented Programming through C++	2.24	0.53	2.77
C203	Mathematical Foundations of Computer Science	1.76	0.50	2.26
C204	Digital Logic Design	1.92	0.57	2.49
C205	Data Structures	2.28	0.50	2.78
C206	Object Oriented Programming Lab	2.40	0.53	2.93
C207	Data Structures Lab	2.40	0.53	2.93
C208	Digital Logic Design Lab	2.40	0.53	2.93
C209	Seminar-I	2.40	0.53	2.93
C210	Probability and statistics	2.20	0.50	2.70
C211	Java Programming	2.12	0.53	2.65
C212	Advanced Data Structures	2.04	0.53	2.57
C213	Computer Organization	2.00	0.53	2.53
C214	Formal Languages and Automata Theory	2.28	0.53	2.81
C215	Advanced Data Structures Lab	2.40	0.53	2.93
C216	Java Programming Lab	2.40	0.53	2.93
C217	Free Open Source Software Lab	2.40	0.57	2.97
C301	Compiler Design	2.20	0.57	2.77
C302	Data Communication	2.24	0.53	2.77
C303	Principles of Programming Languages	2.20	0.53	2.73
C304	Database Management Systems	2.32	0.57	2.89
C305	Operating Systems	1.52	0.53	2.05
C306	Compiler Design Lab	2.40	0.53	2.93
C307	Operating System &Linux Programming Lab	2.40	0.57	2.97
C308	Database Management Systems Lab	2.40	0.53	2.93
C309	Seminar-II	2.40	0.50	2.90
C310	Computer Networks	2.12	0.53	2.65
C311	Data Warehousing and Mining	1.96	0.53	2.49

C312	Design and Analysis of Algorithms	2.28	0.57	2.85
C313	Software Engineering	2.12	0.53	2.65
C314	Web Technologies	2.32	0.57	2.89
C315	IPR AND PATENTS	2.04	0.31	2.35
C316	Computer Networks Lab	2.28	0.53	2.81
C317	Software Engineering Lab	2.40	0.53	2.93
C318	Web Technologies Lab	2.40	0.53	2.93
C401	Cryptography and Network Security	2.04	0.53	2.57
C402	UML & Design Patterns	1.88	0.53	2.41
C403	Mobile Computing	1.96	0.53	2.49
C404	Software Testing Methodologies	2.00	0.53	2.53
C405	Hadoop and Big Data	1.96	0.57	2.53
C406	UML & Design Patterns Lab	2.40	0.53	2.93
C407	Mobile Application Development Lab	2.40	0.53	2.93
C408	Software Testing Lab	2.40	0.53	2.93
C409	Hadoop & BigData Lab	2.40	0.53	2.93
C410	Human Computer Interaction	1.96	0.50	2.46
C411	Cloud Computing	1.92	0.53	2.45
C412	Distributed Systems	1.84	0.53	2.37
C413	Management Science	1.96	0.50	2.46
C414	Project	2.40	0.57	2.97

Table B.3.2.2.c: Course Attainments of 2015 Admitted batch students

3.3. Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1. Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

The Program Outcome attainment constitutes Direct Attainment and Indirect Attainment. The direct attainment is a process of calculating direct attainment through the marks obtained by the students in all the courses. Indirect assessment is a process of collecting feedback from stakeholders on the program outcomes as shown in Figure B.3.3.1.a.

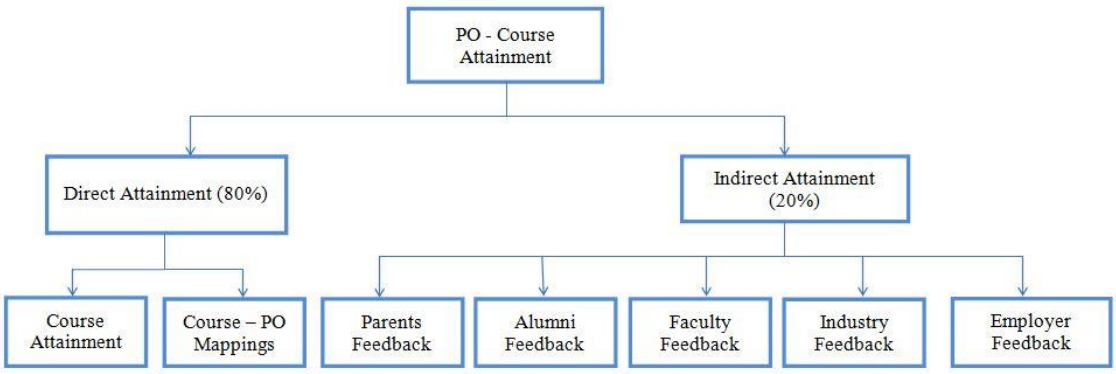


Figure B.3.3.1.a: Assessment tools for calculating PO – Course attainments

Direct Attainment:

The direct attainment of program outcome is the collection of all the Course Attainments with the assessment process as depicted above:

1. Course-PO mapping tables, as shown *in* Table B.3.1.3., for all the courses are collected from the respective course coordinators.
2. Course attainment values, as shown *in* Table B.3.2.1., for all the courses are collected from the respective course coordinators.
3. From the above values, Course-PO attainment values are calculated using,

$$\text{Course} - \text{PO attainment} = \frac{(\text{Course to PO mapping}) * (\text{Course attainment})}{3}$$

4. The average of all these attainments with respect to individual POs is calculated, which gives the direct PO attainment.

Indirect Attainment:

Different surveys are conducted on the program outcomes. Feedbacks are taken from the stakeholder like parents, alumni, faculty, industry, employer etc. Opinions of these stakeholders are collected in a grading scale of 3 (strongly agreeing) to 1 (weakly agreeing).

PO attainment calculation:

1. For the final PO attainment values, 80% of the direct attainment value and 20% of indirect attainment value are considered.
2. The similar procedure is followed for the calculation of PSO attainment.

3.3.2 Provide results of evaluation of each PO & PSO (40)

PO Attainment (Admitted Batch 2017)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	-	-	-	-	-	2.25	2.25	2.25	2.25	2.89	2.41	2.89
C102	2.60	2.60	2.60	2.60	-	2.60	2.17	2.17	-	-	2.17	2.60
C103	2.27	2.13	2.08	2.08	2.00	-	2.40	2.40	-	-	2.08	2.24
C104	2.46	2.19	2.46	2.46	-	2.46	2.26	2.26	-	-	-	2.19
C105	2.38	2.38	2.23	2.23	2.23	-	-	-	2.23	-	-	2.23
C106	2.58	2.42	2.42	2.42	-	2.42	2.90	2.90	2.90	-	2.90	2.90
C107	-	-	-	-	-	1.98	1.98	1.98	2.97	2.97	1.98	2.97
C108	2.96	2.47	2.30	2.30	2.30	1.97	1.97	1.97	1.97	1.97	-	1.97
C110	2.96	2.63	2.30	2.30	2.30	-	-	2.30	2.30	-	-	-
C111	-	-	-	-	-	2.16	2.01	2.16	2.01	2.01	2.16	2.59
C112	2.85	2.85	2.85	2.22	-	2.22	2.22	2.22	-	-	2.22	2.85
C113	2.56	2.56	2.13	2.13	-	2.13	2.13	2.13	-	-	-	2.13
C114	2.79	2.33	2.09	2.17	2.17	-	-	-	2.79	-	-	2.79
C115	-	-	-	-	-	1.93	2.18	2.18	2.18	-	2.26	2.26
C116	2.41	2.41	2.41	2.41	1.61	2.01	-	-	-	-	-	-
C117	2.63	2.30	-	2.47	2.47	-	1.97	-	1.97	1.97	-	1.97
C118	-	-	-	-	-	1.99	1.99	1.99	2.98	2.98	1.99	2.98
C119	2.96	2.63	2.30	2.30	2.30	-	-	2.30	2.30	-	-	-
C201	1.97	1.64	1.86	1.64	1.64	1.31	-	1.97	-	-	1.64	1.53
C202	1.13	1.45	-	1.45	-	-	-	-	-	-	-	0.97
C203	1.36	1.36	1.36	-	-	1.36	-	-	1.19	1.19	1.36	1.02
C204	1.03	0.97	1.03	0.85	0.97	-	-	-	-	-	-	0.73
C205	2.73	2.12	2.12	2.43	1.82	1.82	-	-	2.28	-	-	1.82
C206	2.17	1.81	1.81	1.81	1.45	-	-	1.81	1.45	-	1.45	1.45
C207	2.93	2.93	2.93	2.61	1.95	1.95	-	-	1.95	-	1.95	1.95
C208	2.93	2.93	2.93	2.44	2.44	-	-	-	-	-	-	1.95

C209	1.28	1.28	1.28	1.47	1.10	-	-	1.56	1.10	1.38	1.10	1.10
C210	1.78	1.78	2.16	1.91	1.78	1.53	-	-	1.53	-	1.53	1.53
C211	2.37	2.37	2.11	2.11	2.37	1.98	-	-	1.58	-	1.98	1.58
C212	2.01	1.68	1.79	1.79	-	-	-	-	1.34	-	1.34	1.34
C213	1.88	2.25	1.88	2.00	1.88	-	-	-	-	-	-	1.50
C214	1.79	1.90	-	1.68	1.56	-	-	-	-	-	-	-
C215	2.93	2.93	2.93	2.61	2.93	1.95	-	2.76	1.95	-	1.95	1.95
C216	2.93	2.93	2.76	2.61	2.44	1.95	1.95	-	1.95	-	-	1.95
C301	2.33	2.33	2.18	2.62	-	-	-	-	1.75	-	1.75	1.75
C302	2.11	2.39	2.39	2.11	2.11	-	-	-	2.11	1.69	2.11	1.69
C303	2.11	2.25	1.96	2.39	1.69	2.25	1.69	2.39	2.11	2.11	2.25	-
C304	2.57	2.57	2.57	2.57	2.14	1.71	1.71	-	2.14	-	1.71	2.00
C305	2.69	2.24	2.54	2.39	-	1.79	-	-	-	1.79	-	-
C306	2.97	2.97	2.97	2.80	2.48	1.98	1.98	-	2.48	1.98	2.48	-
C307	2.97	2.97	2.97	2.80	2.97	1.98	-	2.80	2.48	1.98	-	1.98
C308	2.97	2.97	2.97	2.97	2.48	1.98	-	2.80	2.48	-	1.98	2.31
C310	2.00	2.15	2.15	2.43	2.00	2.15	1.72	2.43	-	1.72	2.37	2.15
C311	1.93	2.48	2.34	2.48	1.93	-	-	2.34	-	-	2.07	2.07
C312	2.31	2.61	2.31	2.77	-	2.47	-	-	-	1.85	2.47	2.15
C313	2.07	2.22	2.37	2.37	-	2.37	-	-	1.77	2.37	2.37	2.22
C314	2.13	2.28	2.41	2.41	2.56	-	-	2.13	-	-	-	1.71
C315	2.97	2.97	2.97	2.97	2.97	-	-	-	1.98	2.31	-	2.97
C316	2.97	2.97	2.97	2.64	2.48	2.31	-	2.80	2.48	2.64	2.48	2.48
C317	2.97	2.97	2.97	2.97	2.48	-	-	2.80	2.48	-	-	2.97
C401	2.12	2.58	2.28	2.73	-	2.28	-	-	-	-	2.50	2.28
C402	2.06	2.21	2.65	2.50	-	1.77	-	2.65	2.65	-	-	2.21
C403	2.50	2.08	2.50	2.50	2.36	2.23	-	2.36	2.23	-	-	1.83
C404	-	-	-	-	-	2.89	1.93	2.73	2.24	1.93	2.41	1.93
C405	2.62	2.18	2.47	2.62	2.01	2.47	2.03	2.62	2.33	1.75	2.18	1.75
C406	2.55	2.25	2.25	2.40	2.25	2.25	2.10	-	-	1.80	2.25	2.25
C407	2.97	2.97	2.97	2.97	2.97	-	-	2.80	1.98	-	-	2.48

C408	2.97	2.97	2.97	2.97	2.97	2.48	2.48	2.80	2.48	2.31	-	2.48
C409	2.28	1.99	2.41	2.56	1.92	2.13	-	-	2.13	1.71	-	2.13
C410	-	-	-	-	-	2.90	2.90	2.74	2.42	1.93	1.93	1.93
C411	2.29	2.42	2.29	2.57	2.00	-	-	-	-	-	-	2.14
C412	2.58	2.30	2.30	2.58	2.15	-	-	-	-	-	-	2.00
C413	2.97	2.97	2.97	2.97	2.48	2.97	2.48	2.97	2.97	2.97	2.18	1.98
C414	2.97	2.97	2.97	2.97	2.97	2.97	2.48	2.97	2.97	2.97	2.48	2.97

Table B.3.3.2.a: PO-Course Attainment for 2017 Admitted Batch

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PO Attainment	**2.48**	**2.50**	**2.48**	**2.51**	**2.35**	**2.26**	**2.26**	**2.33**	**2.35**	**2.26**	**2.25**	**2.25**
Direct Attainment	2.43	2.38	2.39	2.38	2.19	2.15	2.15	2.41	2.18	2.12	2.07	2.08
Indirect Attainment	2.70	3.00	2.83	3.00	3.00	2.67	2.67	2.00	3.00	2.83	3.00	2.90

Table B 3.3.2.b: PO Attainment Level for 2017 Admitted Batch

PO Attainment (Admitted Batch 2016)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	-	-	-	-	-	1.92	1.92	1.92	1.92	2.47	2.06	2.47
C102	2.37	2.37	2.37	2.37	-	2.37	1.98	1.98	-	-	1.98	2.37
C103	2.20	2.07	2.02	2.02	1.94	-	2.33	2.33	-	-	2.02	2.17
C104	2.29	2.04	2.29	2.29	-	2.29	2.10	2.10	-	-	-	2.04
C105	2.16	2.16	2.03	2.03	2.03	-	-	-	2.03	-	-	2.03
C106	2.64	2.48	2.48	2.48	-	2.48	2.97	2.97	2.97	-	2.97	2.97
C107	-	-	-	-	-	1.95	1.95	1.95	2.93	2.93	1.95	2.93
C108	2.97	2.48	2.31	2.31	2.31	1.98	1.98	1.98	1.98	1.98	-	1.98
C110	2.98	2.65	2.32	2.32	2.32	-	-	2.32	2.32	-	-	-
C111	-	-	-	-	-	2.10	1.96	2.10	1.96	1.96	2.10	2.52
C112	2.48	2.48	2.48	1.93	-	1.93	1.93	1.93	-	-	1.93	2.48
C113	2.40	2.40	2.00	2.00	-	2.00	2.00	2.00	-	-	-	2.00
C114	2.77	2.31	2.08	2.15	2.15	-	-	-	2.77	-	-	2.77
C115	-	-	-	-	-	1.81	2.04	2.04	2.04	-	2.12	2.12
C116	2.27	2.27	2.27	2.27	1.51	1.89	-	-	-	-	-	-
C117	2.66	2.33	-	2.49	2.49	-	1.99	-	1.99	1.99	-	1.99
C118	-	-	-	-	-	1.99	1.99	1.99	2.98	2.98	1.99	2.98
C119	2.98	2.65	2.32	2.32	2.32	-	-	-	2.32	-	-	-
C201	1.84	1.98	2.24	1.58	1.98	1.58	-	2.37	-	-	2.01	1.84
C202	2.16	2.78	-	2.32	-	-	-	-	-	-	-	1.85
C203	2.47	2.47	2.47	-	-	2.47	-	-	2.15	2.15	2.47	1.85
C204	2.69	2.54	2.69	1.90	2.54	-	-	-	-	-	-	1.90
C205	1.96	1.96	1.96	2.25	1.69	1.69	-	-	2.11	-	-	1.69
C206	2.53	2.11	2.11	2.11	1.69	-	-	2.11	1.69	-	1.69	1.69
C207	2.28	2.28	2.44	2.61	1.95	1.95	-	-	1.95	-	1.63	1.95
C208	2.93	2.93	2.44	2.44	2.44	-	-	-	-	-	-	1.95
C209	1.96	1.96	1.96	1.69	1.69	-	-	2.39	1.69	2.11	1.69	1.69
C210	1.96	1.96	2.39	1.69	1.96	1.69	-	-	1.69	-	1.69	1.69

C211	2.49	2.49	2.22	2.22	2.49	1.66	-	-	1.66	-	2.08	1.66
C212	2.53	2.11	2.25	1.69	-	-	-	-	1.69	-	1.69	1.69
C213	2.14	2.57	2.14	2.29	2.14	-	-	-	-	-	-	1.71
C214	2.50	2.65	-	1.87	2.18	-	-	-	-	-	-	-
C215	2.93	2.93	2.61	2.61	2.93	1.95	-	2.76	1.95	-	1.95	1.95
C216	2.93	2.93	2.76	2.61	2.44	1.95	1.95	-	1.95	-	-	1.95
C301	2.36	2.36	2.21	2.65	-	-	-	-	1.77	-	1.77	1.77
C302	2.24	2.54	2.54	1.79	2.24	-	-	-	2.24	1.79	2.24	1.79
C303	2.41	2.57	2.24	1.93	1.93	1.93	1.93	2.73	2.41	2.41	2.57	-
C304	2.37	2.37	2.37	2.37	1.98	1.58	1.58	-	1.98	-	1.58	1.84
C305	2.85	2.38	2.69	2.54	-	1.90	-	-	-	1.90	-	-
C306	2.93	2.93	2.93	1.95	2.44	1.95	1.95	-	2.44	1.95	2.44	-
C307	2.93	2.93	2.44	2.76	2.93	1.95	-	2.76	2.44	1.95	-	1.95
C308	2.97	2.97	2.48	2.97	2.48	1.98	-	2.80	2.48	-	1.98	2.31
C310	2.06	2.21	2.21	2.50	2.06	1.77	1.77	2.50	-	1.77	2.43	-
C311	2.12	2.73	2.58	2.73	2.12	-	-	2.58	-	-	2.28	2.28
C312	2.34	2.65	2.34	2.81	-	1.87	-	-	-	1.87	2.50	2.18
C313	2.12	2.28	2.43	2.43	-	1.82	-	-	1.82	2.43	2.43	2.28
C314	2.34	2.50	2.65	2.65	2.81	-	-	1.87	-	-	-	1.87
C315	2.97	2.80	2.64	2.80	2.97	-	-	-	1.98	2.31	-	-
C316	2.93	2.44	2.93	2.61	2.44	2.28	-	2.76	2.44	2.61	2.44	2.44
C317	2.76	2.76	2.61	2.76	2.44	-	-	2.76	2.44	-	-	2.93
C401	1.96	2.39	2.11	2.39	-	2.11	-	-	-	-	2.32	2.11
C402	2.12	2.28	2.73	2.58	-	1.82	-	2.73	2.73	-	-	2.28
C403	2.41	2.01	2.41	2.41	2.27	2.41	-	2.27	2.14	-	-	1.77
C404	-	-	-	-	-	2.89	1.93	2.73	2.24	1.93	2.41	1.93
C405	2.73	2.28	2.58	2.73	2.09	2.58	2.12	2.73	2.43	1.82	2.31	1.91
C406	2.20	1.94	1.94	1.94	1.94	1.94	1.81	-	-	1.55	1.94	1.94
C407	2.61	2.93	2.93	2.69	2.93	-	-	2.76	1.95	-	-	2.44
C408	2.61	2.93	2.93	2.76	2.93	2.44	2.44	2.76	2.44	2.28	-	2.44
C409	2.57	2.24	2.24	2.57	2.17	2.41	-	-	2.41	1.93	-	2.41

C410	-	-	-	-	-	2.93	2.93	2.76	2.44	1.95	1.95	1.95
C411	2.18	2.31	2.18	2.45	1.90	-	-	-	-	-	-	1.98
C412	2.57	2.29	2.29	2.57	2.14	-	-	-	-	-	-	-
C413	2.97	2.97	2.97	2.97	2.48	2.97	2.48	2.97	2.97	2.97	2.18	2.97
C414	2.97	2.97	2.97	2.97	2.97	2.97	2.48	2.97	2.97	2.97	2.48	2.97

Table B.3.3.2.c: PO-Course Attainment for 2016 Admitted Batch

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PO Attainment	**2.49**	**2.53**	**2.46**	**2.45**	**2.39**	**2.25**	**2.21**	**2.35**	**2.28**	**2.29**	**2.26**	**2.25**
Direct Attainment	2.49	2.46	2.41	2.36	2.28	2.10	2.10	2.43	2.23	2.19	2.12	2.14
Indirect Attainment	2.50	2.80	2.67	2.83	2.83	2.83	2.67	2.00	2.50	2.67	2.83	2.67

Table B 3.3.2.d: PO Attainment Level for 2016 Admitted Batch

PO Attainment (Admitted Batch 2015)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	-	-	-	-	-	1.62	1.62	1.62	1.62	2.43	1.62	2.43
C102	1.75	1.36	1.17	1.17	-	1.17	1.17	1.17	-	-	1.17	1.75
C103	2.43	1.76	1.62	1.62	1.62	1.62	1.62	1.62	-	-	-	1.62
C104	1.76	1.56	1.25	1.25	1.40	-	-	-	-	-	-	-
C105	2.37	1.67	1.95	1.67	2.51	-	-	-	1.67	-	-	1.26
C106	-	-	-	-	-	2.27	2.14	1.64	0.76	-	0.76	1.51
C107	2.57	1.93	-	1.93	1.93	-	1.93	-	1.93	-	-	1.93
C108	-	-	-	-	-	1.93	1.93	1.93	2.89	2.89	1.93	2.89
C109	2.89	2.24	2.89	2.24	2.89	-	-	0.96	1.93	-	-	1.45

C110	-	-	-	-	-	1.86	1.86	1.86	1.86	2.79	1.86	2.79
C111	2.43	1.62	1.89	1.62	1.62	1.62	1.62	-	-	-	1.62	2.43
C112	1.83	1.42	1.22	1.22	-	1.22	1.22	1.22	-	-	1.22	1.83
C113	1.95	1.30	1.63	1.30	1.30	1.43	1.43	-	-	-	-	1.30
C114	-	-	-	-	-	1.94	1.70	2.91	0.97	0.97	1.94	2.43
C115	2.41	1.84	1.70	1.70	-	1.70	1.70	1.70	1.70	-	1.70	2.55
C116	-	-	-	-	-	1.93	1.93	1.93	2.89	2.89	1.93	2.89
C117	2.89	1.93	1.93	1.93	1.93	1.93	1.93	1.93	2.89	2.89	-	1.93
	-	-	-	-	-	-	-	-	-	-	-	-
C119	2.25	1.28	0.96	-	2.25	-	-	-	0.96	-	-	-
C201	-	-	-	-	-	2.17	1.45	2.17	1.69	1.45	1.81	1.45
C202	2.31	2.31	2.31	2.15	1.85	2.15	-	-	-	1.85	-	2.31
C203	2.26	2.01	-	-	1.51	-	-	-	-	-	2.26	1.51
C204	2.22	2.22	2.22	-	-	2.22	-	-	1.93	2.08	2.22	2.22
C205	2.32	2.32	2.47	2.47	1.85	2.16	-	-	2.16	-	1.85	2.16
C206	2.44	2.44	2.76	2.28	2.93	-	-	2.44	1.95	-	-	1.95
C207	2.44	2.44	2.61	-	2.93	2.44	-	-	-	-	2.28	1.95
C208	2.44	2.93	2.61	2.61	-	2.61	-	-	2.61	2.61	2.61	2.61
C209	2.93	2.93	2.93	2.44	2.44	2.76	-	2.76	2.93	2.28	2.61	2.44
C210	2.10	2.70	-	2.55	-	-	-	-	-	-	-	1.80
C211	2.06	2.21	2.21	1.77	2.06	1.77	-	1.77	1.77	-	1.77	1.77
C212	2.14	2.14	2.29	2.14	1.71	-	-	-	1.71	-	1.71	1.71
C213	2.11	2.11	2.25	1.69	2.11	-	-	-	-	-	1.69	1.69
C214	2.50	2.34	2.50	2.81	-	-	-	-	2.18	-	-	2.18
C215	2.61	2.61	2.76	2.76	2.93	-	-	-	2.28	-	1.95	1.95
C216	2.44	2.61	2.76	2.61	2.93	2.44	-	-	2.28	-	1.95	1.95
C217	2.48	2.64	2.80	2.48	2.97	2.48	-	-	2.31	2.31	2.31	2.31
C301	2.15	2.47	2.15	2.77	-	-	-	-	1.85	-	-	1.85
C302	2.31	2.47	2.47	2.15	-	2.15	-	2.61	2.15	2.47	-	2.15
C303	2.12	2.28	2.28	2.28	2.43	-	-	-	-	-	-	-
C304	2.24	2.24	2.57	2.89	2.57	2.41	-	-	1.93	1.93	1.93	2.24

C305	1.59	1.59	1.71	1.82	1.59	-	-	1.37	1.37	-	-	1.59
C306	2.61	2.44	2.93	2.93	2.93	-	-	-	2.28	-	-	1.95
C307	2.64	2.48	2.80	2.80	2.97	2.31	-	-	2.31	1.98	-	2.31
C308	2.61	2.44	2.93	2.93	2.93	2.28	-	-	2.44	1.95	2.61	2.28
C309	2.90	2.90	2.90	2.90	2.42	2.58	1.93	2.74	2.90	2.25	2.74	2.42
C310	2.21	2.50	2.21	2.50	2.06	-	1.77	-	2.21	1.77	-	-
C311	2.49	2.22	2.08	2.49	2.22	-	-	-	1.66	-	-	1.93
C312	2.38	2.54	2.85	2.85	1.90	2.21	-	2.69	1.90	2.21	1.90	2.21
C313	2.36	2.21	2.21	2.36	1.77	2.21	-	2.50	2.36	1.77	2.50	2.06
C314	2.41	2.57	2.57	2.89	2.73	2.57	-	-	2.89	1.93	-	2.41
C315	-	-	-	-	-	2.35	1.83	2.22	1.83	1.57	1.96	1.57
C316	2.34	2.81	2.65	2.65	2.65	2.18	-	2.65	2.34	1.87	-	1.87
C317	2.28	2.61	2.76	2.61	2.93	2.28	-	2.76	2.44	1.95	1.95	1.95
C318	2.28	2.93	2.93	2.93	2.93	2.28	1.95	-	2.61	1.95	-	1.95
C401	2.00	2.14	2.00	2.42	-	2.00	-	2.57	-	-	1.71	1.71
C402	1.87	2.27	2.14	2.01	1.61	-	1.61	2.27	2.01	1.87	2.01	1.87
C403	1.93	2.08	1.93	2.22	-	1.66	1.66	2.35	-	-	-	1.66
C404	1.96	2.11	2.11	2.25	1.69	1.96	-	2.53	1.96	1.96	2.25	1.96
C405	1.96	2.25	2.11	2.53	1.96	1.69	1.69	-	2.11	-	1.96	1.96
C406	2.61	2.61	2.93	2.61	2.93	-	2.28	2.76	2.28	1.95	2.28	1.95
C407	2.44	2.61	2.44	2.76	2.93	-	-	2.76	2.28	-	-	-
C408	2.44	2.61	2.44	2.61	2.93	1.95	1.95	2.76	2.44	2.28	2.76	2.28
C409	2.44	2.61	2.61	2.93	2.93	-	1.95	2.76	2.44	-	2.28	1.95
C410	1.91	1.91	1.91	1.91	1.64	-	-	-	-	-	-	-
C411	1.90	1.90	1.90	1.63	1.63	1.63	1.90	-	1.90	1.63	1.63	2.04
C412	1.84	1.84	1.84	2.24	1.58	1.84	-	-	1.58	-	1.58	1.58
C413	-	-	-	-	-	2.46	2.46	2.05	2.05	1.91	1.64	1.64
C414	2.97	2.97	2.97	2.97	2.31	2.97	2.31	2.97	2.97	2.31	2.97	2.97

Table B.3.3.2.e: PO-Course Attainment for 2015 Admitted Batch

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	**2.41**	**2.40**	**2.40**	**2.41**	**2.40**	**2.23**	**1.98**	**2.21**	**2.22**	**2.21**	**2.19**	**2.20**
Direct Attainment	2.30	2.25	2.29	2.30	2.27	2.08	1.80	2.20	2.10	2.09	1.99	2.02
Indirect Attainment	2.83	3.00	2.83	2.83	2.90	2.83	2.67	2.25	2.67	2.67	3.00	2.90

Table B 3.3.2.f: PO Attainment Level for 2015 Admitted Batch

Admitted Batch	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2015-19	2.41	2.40	2.40	2.41	2.40	2.23	1.98	2.21	2.22	2.21	2.20	2.20
2016-20	2.49	2.53	2.46	2.45	2.39	2.25	2.21	2.35	2.28	2.29	2.26	2.25
2017-21	2.48	2.50	2.48	2.51	2.35	2.26	2.26	2.33	2.35	2.26	2.25	2.25

Table B 3.3.2.g: CO-PO Analysis for three consecutive batches

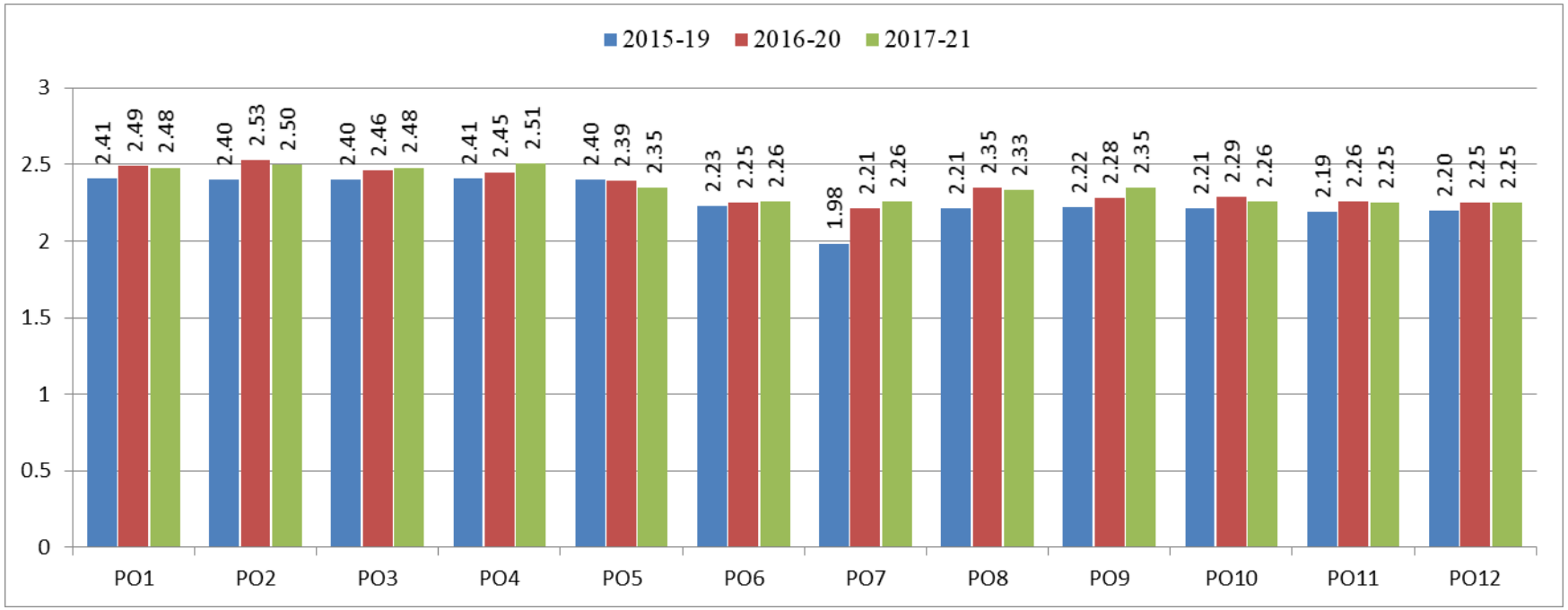


Figure B.3.3.2.a: PO Analysis for three consecutive batches

PO Attainment Analysis

Program Outcome Attainment for the three consecutive batches 2015-19, 2016-20 and 2017-21 are shown in Table B.3.3.2.g. For the students of program B.Tech Computer Science and Engineering, we set

- A target of attaining 80% of the values to POs, PO1 to PO5 which are highly related to engineering core courses and moderately related to non-engineering courses
- A target of 70% for the remaining POs PO6 to PO12 which are moderately related to engineering core courses and non-engineering courses.

For the admitted batch 2015-19, the target is 2.40 out of 3 for engineering courses and 2.20 out of 3 for non-engineering courses, eleven Program Outcomes PO1, PO2, PO3, PO4, PO6, PO7, PO9, PO10, PO11 and PO12 reached the target.

For the admitted batch 2016-20, the target is 2.45 out of 3 for engineering courses and 2.25 out of 3 for non-engineering courses, ten Program Outcomes PO1, PO2, PO3, PO4, PO6, PO8, PO9, PO10, PO11 and PO12 reached the target.

For the admitted batch 2017-21, the target is 2.45 out of 3 for engineering courses and 2.25 out of 3 for non- engineering courses, eleven Program Outcomes PO1, PO2, PO3, PO4, PO6, PO7, PO8, PO9, PO10, PO11 and PO12 reached the target.

The performance of students of all the three batches is progressively increased in extracting the Engineering Knowledge, analyzing the problem and providing optimal design solutions which are clearly represented by the values of PO1, PO2, PO3 and PO4. The value of PO5 is decreased gradually for all the three batches, to which we are conducting different events to show the improvement.

From the analysis, by attaining the target of PO9, PO10, PO11 and PO12 of all the batches shows that our Teaching-Learning process is in the direction of preparing the students inline with our Mission by inculcating team work, communication, management and lifelong learning. We are keen in organizing several events and motivating students to aware and practice the needs of professional engineering in society and Ethical values.

For the subsequent batches, by filing the curriculum gaps we are in the direction to improve and attain the target levels. The progressive growth in the total number of placements and the placed students is a visualized proof that our CSE students attained the target of Program Outcomes which builds the confidence and strength for the upcoming batches.

PSO attainment

Admitted Batch 2017

Course	PSO 1	PSO 2
C101	1.93	-
C102	2.17	-
C103	1.47	-
C104	1.91	-
C105	2.38	2.38
C106	1.93	-
C107	1.98	-
C108	1.97	-
C110	2.30	2.30
C111	1.73	-
C112	1.90	-
C113	1.71	-
C114	2.02	2.48
C115	-	-
C116	1.61	-
C117	1.97	-
C118	1.99	-
C119	2.30	2.30
C201	1.97	-
C202	1.29	1.45
C203	1.44	1.53
C204	0.97	0.73
C205	2.73	1.82
C206	2.05	2.17
C207	2.76	2.93
C208	2.61	1.95
C209	1.65	1.65
C210	1.78	1.53
C211	2.24	2.37

C212	1.79	2.01
C213	1.88	2.25
C214	1.68	2.01
C215	2.44	2.93
C216	2.76	2.93
C301	2.47	2.62
C302	2.25	1.69
C303	2.53	-
C304	2.14	2.57
C305	2.39	2.69
C306	2.64	2.97
C307	2.64	2.97
C308	2.80	2.97
C310	2.58	2.58
C311	2.48	2.48
C312	2.77	2.77
C313	2.37	2.07
C314	2.56	2.13
C315	2.97	2.97
C316	2.97	-
C317	2.97	2.97
C401	2.73	2.73
C402	2.65	2.65
C403	2.23	2.50
C404	2.89	1.93
C405	2.62	2.18
C406	2.70	2.70
C407	2.97	2.97
C408	2.97	1.98
C409	2.56	2.56
C410	2.90	2.90
C411	2.57	2.00

C412	2.58	1.72
C413	2.97	2.97
C414	2.97	2.97

Table B.3.3.2.h: PSO-Course Attainment for 2017 Admitted Batch

PSO Attainment Level

PSO Attainment	**2.45**	**2.45**
Direct Attainment	2.30	2.36
Indirect Attainment	3.00	2.83

Table B 3.3.2.i: PSO Attainment Level for 2017 Admitted Batch

Admitted Batch 2016

Course	PSO 1	PSO 2
C101	1.65	-
C102	1.98	-
C103	1.42	-
C104	1.78	-
C105	2.16	2.16
C106	1.98	-
C107	1.95	-
C108	1.98	-
C110	2.32	2.32
C111	1.68	-
C112	1.65	-
C113	1.60	-
C114	2.00	2.46
C115	-	-
C116	1.51	-
C117	1.99	-
C118	1.99	-
C119	2.32	2.32
C201	1.84	-
C202	2.47	2.78

C203	2.61	2.77
C204	2.54	1.90
C205	1.96	1.27
C206	2.39	2.53
C207	2.76	2.93
C208	2.61	1.95
C209	2.53	2.53
C210	1.96	1.69
C211	2.35	2.49
C212	2.25	2.53
C213	2.00	2.57
C214	2.34	2.81
C215	2.44	2.93
C216	2.76	2.93
C301	2.50	2.65
C302	2.39	1.79
C303	2.24	-
C304	1.98	2.37
C305	2.54	2.85
C306	2.61	2.93
C307	2.61	2.93
C308	2.80	2.97
C310	2.65	2.65
C311	2.73	2.73
C312	2.81	2.81
C313	2.43	2.12
C314	2.81	2.34
C315	2.97	2.97
C316	1.95	-
C317	2.93	2.93
C401	2.53	2.53
C402	2.73	2.73

C403	2.14	2.41
C404	2.89	1.93
C405	2.73	2.28
C406	2.33	2.33
C407	2.93	2.93
C408	2.93	1.95
C409	2.89	2.89
C410	2.93	2.93
C411	2.45	1.90
C412	2.57	1.71
C413	2.97	2.97
C414	2.97	2.97

Table B.3.3.2.j: PSO-Course Attainment for 2016 Admitted Batch

PSO Attainment Level

PSO Attainment	**2.45**	**2.46**
Direct Attainment	2.36	2.50
Indirect Attainment	2.83	2.33

Table B 3.3.2.k: PSO Attainment Level for 2016 Admitted Batch

Admitted Batch 2015

Course	**PSO 1**	**PSO 2**
C101	1.62	-
C102	1.17	-
C103	1.62	-
C104	1.25	-
C105	1.95	1.95
C106	1.51	-
C107	1.93	-
C108	1.93	-
C109	2.24	2.24
C110	1.86	-
C111	1.62	-

C112	1.22	-
C113	1.30	-
C114	1.62	-
C115	1.70	-
C116	1.93	-
C117	1.93	-
C119	2.41	1.77
C201	1.45	-
C202	2.61	2.47
C203	2.01	-
C204	2.08	-
C205	2.62	2.47
C206	2.76	2.76
C207	2.76	2.76
C208	2.76	-
C209	2.93	2.61
C210	2.25	-
C211	2.50	2.36
C212	2.42	2.42
C213	2.39	2.39
C214	2.34	2.34
C215	2.76	2.61
C216	2.76	2.61
C217	2.80	2.64
C301	2.47	2.47
C302	2.47	-
C303	2.43	2.12
C304	2.73	2.73
C305	1.93	1.93
C306	2.76	2.76
C307	2.80	2.80
C308	2.76	2.61

C309	2.90	2.58
C310	2.36	2.36
C311	2.35	2.22
C312	2.54	2.69
C313	2.50	2.50
C314	2.57	2.73
C315	1.57	-
C316	2.65	2.18
C317	2.76	2.61
C318	2.76	2.76
C401	2.42	2.42
C402	2.27	1.87
C403	2.49	2.22
C404	2.53	2.39
C405	2.53	2.39
C406	2.93	2.76
C407	2.76	2.76
C408	2.76	2.61
C409	2.93	2.28
C410	2.19	1.64
C411	2.31	1.90
C412	2.24	1.58
C413	1.64	-
C414	2.97	2.97

Table B.3.3.2.l: PSO-Course Attainment for 2015 Admitted Batch

PSO Attainment Level

PSO Attainment	**2.40**	**2.40**
Direct Attainment	2.29	2.41
Indirect Attainment	2.83	2.33

Table B 3.3.2.m: PSO Attainment Level for 2015 Admitted Batch

PSO attainment

In the similar way, we have calculated PSO attainment for each course and obtained values are shown below

The consolidated table of PSO attainments is given below

Year	PSO1	PSO2
2015-19	2.40	2.40
2016-20	2.45	2.46
2017-21	2.45	2.45

Table B 3.3.2.n: PSO-Course Attainment analysis for three consecutive batches

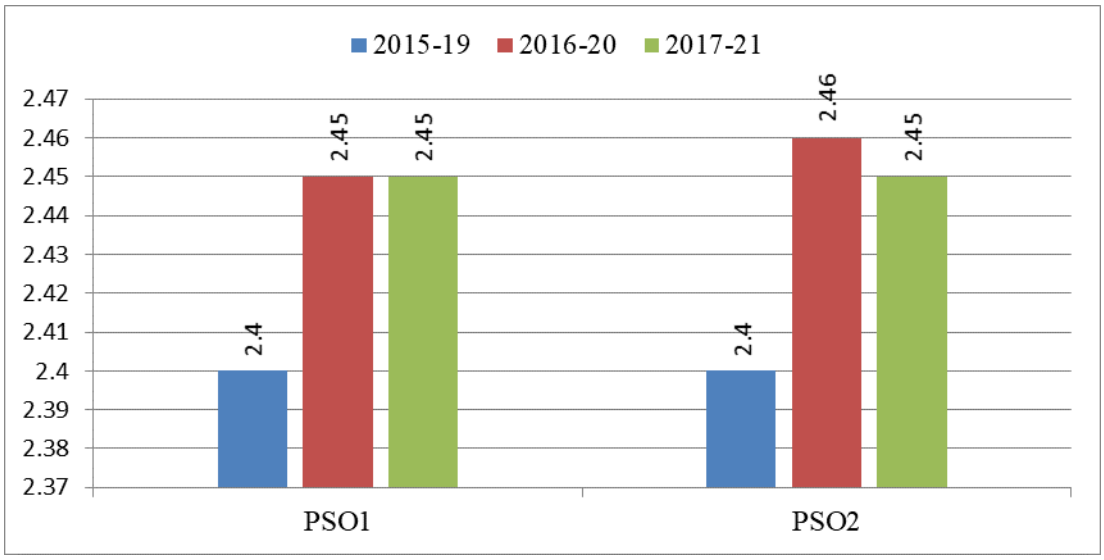


Figure B.3.3.2.b: PSO-Program Attainment analysis for three consecutive batches

PSO -Program Attainment Analyisis:

Program Specific Outcome Attainment for the three consecutive batches 2015-19, 2016-20 and 2017-21 are shown in Table B.3.3.2.n and in Figure B.3.3.2.b. For the students of the program B.Tech Computer Science and Engineering, we set

- A target of attaining 80% of the values to PSO1 which is high related to Engineering core courses and moderately related to non-engineering courses.
- A target of 80% for the remaining PO2 which is high related to engineering core courses and low related to non-engineering courses.

For PSO-Program Attainment for the three consecutive batches 2015-19, 2016-20 and 2017-21 targets are 2.40, 2.45, and 2.45 respectively. PSO1 and PSO2 reached the target. A

continuous improvement is observed for the three batches in PSO attainment which is achieved by preparing our students towards the needs of IT industry, various industry, organizing and motivating students to participate in all kinds of technical events to and emphasize of latest technologies, by encouraging towards research and higher studies etc.

CRITERION 4	**Students Performance**	**150**

4.1	Enrolment Ratio	20M
4.2	Success Rate in the stipulated period of the program	40M
4.3	Academic Performance in Third Year	15M
4.4	Academic Performance in Second Year	15M
4.5	Placement, Higher Studies and Entrepreneurship	40M
4.6	Professional Activities	20M

CRITERION 4	Students Performance	150

4 STUDENTS' PERFORMANCE (150)

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY 2020-21	CAYm1 2019-20	CAYm2 2018-19	CAYm3 2017-18	CAYm4 2016-17	CAYm5 2015-16	CAYm6 2014-13	CAYm7 2013-14
Sanctioned intake of the program (N)	193	193	180	180	180	180	180	180
Total number of students admitted in first year *minus* number of students migrated to other programs/institutions plus no. of students migrated to this program (*N*1)	186	187	171	177	179	175	167	133
Number of students admitted in 2nd year in the same batch via lateral entry (*N*2)	0	18	18	21	14	11	12	23
Separate division students, if applicable(*N3*)	0	0	0	0	0	0	0	0
Total number of students admitted in the Program (*N*1 + *N*2 + N3)	186	205	189	198	193	186	179	156

Table B.4.a: Total number of admitted students

CAY – Current Academic Year
CAYm1- Current Academic Year minus1= Current Assessment Year
CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1
LYG – Last Year Graduate minus 1
LYGm1 – Last Year Graduate minus 1
LYGm2 – Last Year Graduate minus 2

Year of entry	Total No of Students Admitted in the Program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester /year of study. (Without Backlog means no compartment or failures in any semester/year of study)			
		I year	II year	III year	IV year
2020-21(CAY)	186				
2019-20(CAYm1)	187	119			
2018-19(CAYm2)	189	141	146		
2017-18(CAYm3)	198	110	100	94	87
2016-17(LYG)	193	110	111	109	101
2015-16(LYGm1)	186	124	125	120	111
2014-15(LYGm2)	179	110	104	95	87
2013-14(LYGm3)	156	83	99	94	89

Table B.4.b: Number of students who have successfully graduated without backlogs

Year of entry	Total No of Students Admitted in the Program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2020-21(CAY)	186				
2019-20(CAYm1)	187	186			
2018-19(CAYm2)	189	171	187		
2017-18(CAYm3)	198	174	194	191	152
2016-17(LYG)	193	175	188	187	157
2015-16(LYGm1)	186	173	184	183	171
2014-15(LYGm2)	179	163	174	170	151
2013-14(LYGm3)	156	132	155	155	142

Table B.4.c: Number of students who have successfully graduated in stipulated period of study

4.1. Enrolment Ratio (20)

Enrolment Ratio=N1/N

Item *(Students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year)*	***Marks***
>=90% students enrolled	*20*
>=80% students enrolled	*18*
>=70% students enrolled	*16*
>=60% students enrolled	*14*
>=50% students enrolled	*12*
Otherwise	*0*

Academic year	**N (From Table B.4a)**	**N1 (From Table B.4a)**	**Enrollment Ratio [(N1/N) *100]**	
2020-21(CAY)	193	186	-	96.37
2019-20(CAYm1)	193	187	96.89	96.89
2018-19(CAYm2)	180	171	95.00	95.00
2017-18(CAYm3)	180	177	98.33	-
Average [(ER1 + ER2 + ER3) / 3]			**96.74**	**96.08**
Marks			**20**	**20**

Table B.4.1.a: Enrolment Ratio

4.2. Success Rate in the stipulated period of the program (40)

4.2.1. Success rate without backlogs in any semester/year of study (25)

SI= (Number of students who have graduated from the program without backlog)/ (Number of Students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI =Mean of Success Index (SI) for past three batches

Success rate without backlogs in any year of study = 25 × Average SI

Item	CAYm3 (2017-18)	LYG (2016-17)	LYGm1 (2015-16)	LYGm2 (2014-15)	LYGm3 (2013-14)
Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	198	193	186	179	156
Number of students who have graduated without backlogs in the stipulated period	86	101	111	87	89
Success Index (SI= Y/X)	0.43	0.52	0.60	0.49	0.59
Average SI = [(SI1 + SI2 + SI3) / 3]	-		0.56		
	-	0.53			-
	0.51			-	
Marks = 25* Average SI	-		14.00		
	-	13.25			-
	12.75			-	

Table B.4.2.1: Success rate without backlogs in any semester/year of study

4.2.2. Success rate with backlog in stipulated period of study (15)

Item	CAYm3 (2017-18)	LYG (2016-17)	LYGm1 (2015-16)	LYGm2 (2014-15)	LYGm3 (2013-14)
Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	198	193	186	179	156
Number of students who have graduated without backlogs in the stipulated period	152	157	171	151	142
Success Index (SI= Y/X)	0.76	0.81	0.92	0.84	0.91
Average SI = [(SI1 + SI2 + SI3) / 3]	-		0.89		
	-	0.85			-
	0.83			-	
Marks = 15* Average SI	-		13.35		
	-	12.75			-
	12.45			-	

Table B.4.2.2: Success rate with backlog in stipulated period of study

Note : If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3. Academic Performance in Third Year (15)

*Academic Performance =1.5 * Average API (Academic Performance Index)*
***API** = ((Mean of 3rdYear Grade Point Average of all successful Students on a 10 point scale) or(Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/ number of students appeared in the examination)*
Successful students are those who are permitted to proceed to the final year.

Academic Performance	**CAYm3 (2017-18)**	**LYG (2016-17)**	**LYGm1 (2015-16)**	**LYGm2 (2014-15)**
Mean of CGPA or mean percentage of all successful students(X)	7.24	7.64	7.26	6.89
Total number of successful students(Y)	196.00	187.00	183.00	170.00
Total number of students appeared in the examination(Z)	198.00	187.00	184.00	174.00
API = X * (Y/Z)	7.34	7.64	7.22	6.73
Average API = [(AP1 + AP2 + AP3)/3]	-	7.19		
	7.40			-
Marks = [1.5 * Average API]	-	10.79		
	11.10			-

Table B.4.3: Academic Performance in Third Year

4.4. Academic Performance in Second Year (15)

*Academic Performance Level =1.5 * Average API (Academic Performance Index)*
API= *((Mean of 2nd Year Grade Point Average of all successful Students on a 10-point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) X (number of successful students /number of students appeared in the examination)*
Successful students are those who are permitted to proceed to the Third year.

Academic Performance	**CAYm2 (2018-19)**	**CAYm3 (2017-18)**	**LYG (2016-17)**	**LYGm1 (2015-16)**
Mean of CGPA or mean percentage of all successful students(X)	7.14	6.72	7.06	7.28
Total number of successful students(Y)	188	192	187	184
Total number of students appeared in the examination(Z)	189	195	189	184
API = X * (Y/Z)	7.10	6.62	6.99	7.28
Average API = [(AP1 + AP2 + AP3)/3]	-	6.96		
	6.90			-
Marks = [1.5 * Average API]	-	10.44		
	10.35			-

Table B.4.4: Academic Performance in Second Year

4.5. Placement, Higher Studies and Entrepreneurship (40)

Assessment Points=40 × *average placement*

Item	CAYm3 (2017-18)	LYG (2016-17)	LYGm1 (2015-16)	LYGm2 (2014-15)	LYGm3 (2013-14)
Total No. of Final Year Students(N)	195	189	183	170	155
No. of students placed in the companies or government sector(X)	150	149	165	142	131
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	0	5	2	6	8
No. of students turned entrepreneur in engineering /technology (Z)	0	1	1	1	2
X + Y + Z =	150	155	168	149	141
Placement Index = [(X+Y+Z)/N] :	0.76	0.82	0.92	0.87	0.90
Average Placement= [(P1 + P2+P3)/3]	-		0.89		
	-	0.87			-
	0.83			-	
Marks = [40 * Average Placement]	-		35.60		
	-	34.80			-

4.5a. Provide the placement data in the below mentioned format with the name of the program and the assessment year:

In 2020-21, our students were recruited by various top MNCs like Accenture, IBM, Capgemini, Cognizant, Mphasis, Tech Mahindra etc., with high package of 7 LPA and an average package of 3.9 LPA.

Placed students of 2017 Admitted batch, 2020-21				
Sl. No	**Name of the student placed**	**Enrollment No.**	**Name of the Employer**	**Appointment letter Reference No. with date**
1.	BODDEDA UTTEJA	17NM1A0521	MPHASIS	VIEW/TP/20210459
2.	T J N SURYAKUMARI	17NM1A05G4	MPHASIS	MPHTH_CD2021-0340
3.	KOSURI LAVANYA	17NM1A0588	BYJU'S	VIEW/TP/20210475
4.	G SAI CHANDANA	17NM1A0556	PWC	C000003117438
5.	J SAI HARSHITHA	17NM1A0564	HARMAN	VIEW/TP/20210195
6.	KARANAM POORNA	18NM5A0505	TECH MAHINDRA	845402/1963483/ELTP
7.	A MANASA	17NM1A0504	TECHIGAI	VIEW/TP/20210159
8.	ANNE SRI REKHA	17NM1A0509	TECHIGAI	VIEW/TP/20210178
9.	ASUVARNA GEETHA	17NM1A0510	ACCENTURE	ofd007c9-3bfb-4fd2-8def-dfd84b38cc71_1
10.	ARNIPALLI SHIVANI	17NM1A0511	ACCENTURE	VIEW/TP/20210183
11.	AYITHI DEEPIKA	17NM1A0512	ACCENTURE	VIEW/TP/20210192

12.	CHOPPA NANDINI	17NM1A0532	ACCENTURE	VIEW/TP/20210468
13.	D PRIYA	17NM1A0533	ACCENTURE	ec7c083c-40ee-4e42-9c59-5dc1663a9f24_1
14.	DUNNA SINDHU	17NM1A0539	ACCENTURE	VIEW/TP/20210044
15.	E HARSHA VARDHINI	17NM1A0542	ACCENTURE	83377e18-060f-41f3-b55f-ae7d337dcc9c_1
16.	GAVIREDDY MANASA	17NM1A0549	ACCENTURE	67388481-e075-49b8-6905-1a68b5c63d0d_1
17.	GAVVA RANI	17NM1A0550	ACCENTURE	48f605db0-19ad-4582-b959-e872a081a603_1
18.	GORUSU SRAVANI	17NM1A0554	ACCENTURE	35a19b95-ca61-4489-b938-3dcd4e39be97_1
19.	K HARI SWETHA	17NM1A0565	ACCENTURE	VIEW/TP/20210046
20.	KALAGA SAHITYA	17NM1A0568	ACCENTURE	TCSL/DT20184502359/HYDERABAD
21.	KALLADA YAMUNA	17NM1A0572	ACCENTURE	798f2c48-deb8-4661-a4a7-e4ee793d8e01_1
22.	KARAKA JYOSHNA	17NM1A0579	ACCENTURE	VIEW/TP/20210048
23.	KUNCHALA VENNELA	17NM1A0590	ACCENTURE	VIEW/TP/20210477
24.	KUNDRAPU DIVYA	17NM1A0591	ACCENTURE	VIEW/TP/20210478
25.	LANKA SRUTHI	17NM1A0594	ACCENTURE	b3005a48-87f1-4ebf-ad06-d297f67d1b80_1
26.	MADDI ANNAPURNA	17NM1A0596	ACCENTURE	VIEW/TP/20210483
27.	M RATNA SHIVANI	17NM1A0597	ACCENTURE	VIEW/TP/20210484
28.	M RITHWIKAA	17NM1A05A0	ACCENTURE	VIEW/TP/20210054
29.	M SAI BHAVANA	17NM1A05A1	ACCENTURE	Marada Sai Bhavana/PT/1848115/Mar-21
30.	N SWARUPA	17NM1A05A7	ACCENTURE	VIEW/TP/20210055
31.	NALLANA POOJITHA	17NM1A05A9	ACCENTURE	VIEW/TP/20210056
32.	PALEM SUSHMA	17NM1A05B8	ACCENTURE	VIEW/TP/20210057
33.	PALLI VASANTHI	17NM1A05B9	ACCENTURE	VIEW/TP/20210058
34.	P SRI SAI KEERTHI	17NM1A05C1	ACCENTURE	VIEW/TP/20210059
35.	PARICHARLA LAHARI	17NM1A05C2	ACCENTURE	VIEW/TP/20210060
36.	P RAMA LAKSHMI	17NM1A05C5	ACCENTURE	VIEW/TP/20210061
37.	PILLA MOUNIKA	17NM1A05C8	ACCENTURE	c68f1121-5394-423d-9d39-b2f2e0401739_1
38.	P TEJA SAI SREE	17NM1A05C9	ACCENTURE	c68f1121-5394-423d-9d39-b2f2e0401739_1
39.	POTHULA JAHNAVI	17NM1A05D1	ACCENTURE	75242874-9dd3-47d7-87cb-e16babb58918_1
40.	PUSAPATI REVATHI	17NM1A05D4	ACCENTURE	499d36d7-f971-4369-ad4e-c7fd582542a1_1
41.	R L V SRUJANA	17NM1A05D9	ACCENTURE	0e224415-e998-4dba-92e7-901379408d60_1
42.	S SRI VARSHINI	17NM1A05E4	ACCENTURE	e10ad684-03a7-480f-89e2-5307813d9ddd_1
43.	SANAM RUPA SRI	17NM1A05E5	ACCENTURE	VIEW/TP/20210062
44.	S RAMYA	17NM1A05F2	ACCENTURE	VIEW/TP/20210063
45.	T LEELA BHAVANI	17NM1A05G2	ACCENTURE	VIEW/TP/20210064
46.	V KALPANA	17NM1A05G6	ACCENTURE	VIEW/TP/20210065
47.	V KUSUMANJALI	17NM1A05G7	ACCENTURE	VIEW/TP/20210066
48.	VEDULA SHAANKARI	17NM1A05H0	ACCENTURE	00A28A29-544C-4C56-AD6B-29F5D09EFFD1_1
49.	Y D SAI BHANUSRI	17NM1A05H6	ACCENTURE	78AE5CA1-C74E-44EE-8CAF-41F1F015FF6B_1
50.	CHINTA MEGHANA	17NM1A05H8	ACCENTURE	00a28a29-544c-4c56-ad6b-29f5d09effd1_1
51.	S SANDHYA RANI	17NM1A05F3	AMDOCS	2021-07-OCT3-DVCI-P-Z111129-1
52.	BALIBOYENA DIVYA	17NM1A0513	PWC	C000003330874
53.	KOVELA HEMA SRI	17NM1A0589	IBM	VIEW/TP/20210204
54.	NUPUR DAS	17NM1A05B6	IBM	4434232
55.	A SAI SANTHOSHI	17NM1A0502	COGNIZANT	VIEW/TP/20210145
56.	CH MADHULIKA	17NM1A0531	COGNIZANT	16847544
57.	DADI SOWMYA	17NM1A0535	COGNIZANT	17785487
58.	GOMPA NIKHILA	17NM1A0553	COGNIZANT	15524048
59.	K LEELAVATHI	17NM1A0592	COGNIZANT	17167395
60.	R BHARATHI JYOTHI	17NM1A05E0	COGNIZANT	VIEW/TP/20210152
61.	TALLURI MEGHANA	17NM1A05G3	COGNIZANT	VIEW/TP/20210153
62.	M PRIYA MOUNIKA	18NM5A0521	ABSOLINSOFT	VIEW/TP/20210001
63.	D VINEETHA SRI	17NM1A0537	BRIGHT	VIEW/TP/20210415
64.	MADAKA PADMAJA	18NM5A0509	BRIGHT	VIEW/TP/20210089

65.	NAGALA CHANDINI	18NM5A0511	COGNIZANT	15580811
66.	C RENUKA DEVI	17A6M1A0507	MIND TREE	VIEW/TP/20210218
67.	BEHARA ANUSHA	17NM1A0517	MINDTREE	TN/80021190/21
68.	P SAI RAKSHITHA	17NM1A05E3	MINDTREE	TN/80021065/21
69.	GANTLA JOSHNA	17NM1A0548	EFFTRONICS	EFF/HRD/21-22/OFF-RD/103
70.	BATCHU SUSHMITA	17NM1A0516	CAPGEMINI	VIEW/TP/20210402
71.	G VATHSALYA	17NM1A0545	CAPGEMINI	VIEW/TP/20210257
72.	R CHANDINI	18NM5A0516	CAPGEMINI	4818227/912354
73.	V VIJAYA LAKSHMI	17NM1A05H3	VOLTEO DIGITAL	520_D_IN
74.	A U S DURGA CHINNI	17NM1A0505	WIPRO	VIEW/TP/20210338
75.	BODDA AKHILA	17NM1A0520	WIPRO	VIEW/TP/20210458
76.	GALI TEJASWINI	17NM1A0546	WIPRO	21053708
77.	KALLA DIVYA	17NM1A0571	WIPRO	VIEW/TP/20210347
78.	M SAI MOUNICA	17NM1A0595	WIPRO	VIEW/TP/20210482
79.	N PADMA	17NM1A05B2	WIPRO	VIEW/TP/20210263
80.	V D L RAJESWARI	17NM1A05H1	WIPRO	VIEW/TP/20210266
81.	PENAGANTI DEVI	18NM5A0514	WIPRO	VIEW/TP/20210366
82.	ANGA DEEPIKA	17NM1A0508	EDWISER	VIEW/TP/20210177
83.	BIRLANGI SIRISHA	17NM1A0519	EDWISER	VIEW/TP/20210457
84.	B SRI SAI MANASA	17NM1A0522	EDWISER	VIEW/TP/20210458
85.	B L A KIRANMAI	17NM1A0523	EDWISER	VIEW/TP/20210459
86.	BONAM ROSHINI	17NM1A0524	EDWISER	VIEW/TP/20210178
87.	BOYIDI SUPRIYA	17NM1A0526	EDWISER	VIEW/TP/20210460
88.	E SIRISHA RANI	17NM1A0541	EDWISER	VIEW/TP/20210461
89.	G NAGAMANI	17NM1A0543	EDWISER	VIEW/TP/20210462
90.	GULLIPALLI JAHNAVI	17NM1A0555	EDWISER	VIEW/TP/20210463
91.	ISUKAPATLA RAMYA	17NM1A0558	EDWISER	VIEW/TP/20210464
92.	J NADIYA	17NM1A0561	EDWISER	VIEW/TP/20210465
93.	KALEPU SREEJA	17NM1A0569	EDWISER	VIEW/TP/20210181
94.	K VIJAYA VARSHINI	17NM1A0573	EDWISER	VIEW/TP/20210466
95.	KANDRIKA SOUMYA	17NM1A0576	EDWISER	VIEW/TP/20210467
96.	K BHAGYAVARSHA	17NM1A0577	EDWISER	VIEW/TP/20210468
97.	KARANAM POOJA	17NM1A0580	EDWISER	VIEW/TP/20210469
98.	KOLA LAVANYA	17NM1A0581	EDWISER	VIEW/TP/20210470
99.	KOLLI LALITHA	17NM1A0582	EDWISER	VIEW/TP/20210471
100.	M DEBORAH ZENIFER	17NM1A0599	EDWISER	VIEW/TP/20210183
101.	A V K PRAVALLIKA	17NM1A0501	AVASOFT	VIEW/TP/20210403
102.	BHIMUNI BHARGAVI	17NM1A0518	INFOSYS	HRD/3T/21-22/1002128487/21-22
103.	CH MONISHA	17NM1A0528	INFOSYS	HRD/3T/1002132921/21-22
104.	CHINTADA ALEKHYA	17NM1A0530	INFOSYS	HRD/3T/21-22/1002132052
105.	G ANANDA BHAVANI	17NM1A0551	INFOSYS	HRD/3T/1002055257/21-22
106.	GUNNA MADHUSRI	17NM1A0557	INFOSYS	HRD/3T/21-22/1002129167
107.	JAKKUVA MANASA	17NM1A0559	INFOSYS	HRD/3T/1002130108/21-22
108.	K SRIVALLIKA	17NM1A0586	INFOSYS	HRD/3T/1002410409/21-22
109.	M V SAI PRAVALLIKA	17NM1A0598	INFOSYS	HRD/3T/21-22/1002136167
110.	N SAI SANDHYA	17NM1A05B3	INFOSYS	HRD/3T/21-22/1001776836
111.	PONNADA BHAVYA	17NM1A05D0	INFOSYS	HRD/3T/1002130110/21-22
112.	SONTI JAHANAVI	17NM1A05F7	INFOSYS	HRD/3T/1002131090/21-22
113.	T POOJITHA	17NM1A05G5	INFOSYS	HRD/3T/21-22/1002136176
114.	POLAKI SWATHI	18NM5A0515	INFOSYS	HRD/3T/21-22/1002133238
115.	MEDISETTI JYOTHSNA	17NM1A05A2	IBM	6161039
116.	P V SATYA LIKHITHA	17NM1A05C6	SYNTEL	ASBE2057557
117.	SIVALA DEEPIKA	17NM1A05F5	SYNTEL	ASBE2063588

118.	K UMA SAI SIRISHA	18NM5A0506	SYNTEL	ASBE2057901
119.	BASANA HARSHINI	17NM1A0515	TCS	TCSL/DT20195426981/Hyderabad
120.	D JOSHITHA	17NM1A0540	TCS	TCSL/DT20206651864/Hyderabad
121.	JOBA KUMARI	17NM1A0562	TCS	TCSL/DT20207205026/Hyderabad
122.	K JOGA SANDHYA	17NM1A0567	TCS	TCSL/DT20207205024/Hyderabad
123.	RONGALI TANUJA	17NM1A05E1	TCS	TCSL/DT20206398759/Hyderabad
124.	S BHAGYASRI	17NM1A05E6	TCS	VIEW/TP/20210063
125.	SANAPATHI SRAVANI	17NM1A05E7	TCS	TCSL/DT20206398637/Hyderabad
126.	S SANDHYA RANI	17NM1A05E8	TCS	TCSL/DT20206398197/Hyderabad
127.	S SUSHMA	17NM1A05F1	TCS	TCSL/DT2020733981/Kolkata
128.	SURADA HARITHA	17NM1A05G0	TCS	HRD/3T/21-22/1001583494
129.	AMBATI SIREESHA	17NM1A0507	TECH MAHINDRA	845402/1963580/ELTP
130.	PURETI LIKHITHA	17NM1A05D3	TECH MAHINDRA	845402/1963611/ELTP
131.	N K S SAI PRIYANKA	18NM5A0512	TECH MAHINDRA	845402/1963486/ELTP
132.	P S JYOTHI MEGHANA	17NM1A05C7	NNIIT	VIEW/TP/20210237
133.	ADDALA LAKSHMI	17NM1A0503	TECH DENALI	VIEW/TP/20210294
134.	BORRA SUNITHA	17NM1A0525	PCS TECHNOLOGIES	VIEW/TP/20210463
135.	G P SRI LAKSHMI	17NM1A0544	PCS TECHNOLOGIES	VIEW/TP/20210464
136.	J POORNIMA	17NM1A0563	PCS TECHNOLOGIES	VIEW/TP/20210260
137.	B YAMUNA KUMARI	18NM5A0502	PCS TECHNOLOGIES	VIEW/TP/20210261
138.	K SATYA PRIYA	17NM1A0584	PCS TECHNOLOGIES	VIEW/TP/20210472
139.	KONDA BASHEERA	17NM1A0587	PCS TECHNOLOGIES	VIEW/TP/20210474
140.	L TRISHA	17NM1A0593	PCS TECHNOLOGIES	VIEW/TP/20210475
141.	M UMA MAHESWARI	17NM1A05A3	PCS TECHNOLOGIES	VIEW/TP/20210476
142.	NALLABATI ANUSHA	17NM1A05A8	PCS TECHNOLOGIES	VIEW/TP/20210477
143.	NATTI POORNIMA	17NM1A05B4	PCS TECHNOLOGIES	VIEW/TP/20210478
144.	P GNANESWARI	17NM1A05B7	PCS TECHNOLOGIES	VIEW/TP/20210479
145.	PASALA ANUSHA	17NM1A05C3	PCS TECHNOLOGIES	VIEW/TP/20210480
146.	RAGOLU SADHANA	17NM1A05D6	PCS TECHNOLOGIES	VIEW/TP/20210481
147.	RAMADALAI KEERTHI	17NM1A05D7	PCS TECHNOLOGIES	VIEW/TP/20210482
148.	R ANUSHA	17NM1A05D8	PCS TECHNOLOGIES	VIEW/TP/20210483
149.	R YAMINI VARMA	17NM1A05E2	PCS TECHNOLOGIES	VIEW/TP/20210484
150.	VASUPILLI HARINI	18NM5A0520	CSS CROP	VIEW/TP/20210161

Table B.4.5.a: CAY (2020-21)-Placed students of 2017 Admitted batch

In 2019-20, MNCs like Amazon, IBM, Accenture, Tech Mahindra, TCS, DXC Technology, Capgemini, Sutherland, Cognizant, etc., visited the campus and selected 149 students with highest package of 19 LPA and an average package of 3.21 LPA.

Placed students of 2016 Admitted batch, 2019-20				
Sl.No	**Name of the student placed**	**Enrollment No.**	**Name of the Employer**	**Appointment letter Reference No. with date**
1.	B NIHARIKA	16NM1A0512	AMAZON	106104598
2.	V MANICHANDANA	17NM5A0513	AMAZON	VIEW/TP/20200212
3.	GUJJARI PRIYANKA	16NM1A0542	IBM	0012R9
4.	K CHATURYA	16NM1A0560	IBM	VIEW/TP/20200185
5.	M SRAVYA	16NM1A05C4	IBM	4294203
6.	DADI JYOTHSNA	16NM1A0528	IBM	VIEW/TP/20200287

7.	K SAI PRANEETHA	16NM1A0553	IBM	0028QK
8.	MAJJI KASTURI	17NM5A0507	IBM	HR/campus/LOI14618966/1
9.	P BALA RAMA JYOTHI	17NM5A0508	IBM	VIEW/TP/20200282
10.	G KUSUMA	16NM1A05E9	APCFSS	VIEW/TP/20200382
11.	A LEELAVENI	16NM1A0507	DXC TECHNOLOGY	11611763
12.	K BHAGYA SRI	16NM1A0552	DXC TECHNOLOGY	11611765
13.	KODURU SANTOSHI	16NM1A0558	DXC TECHNOLOGY	11611767
14.	K SAI SADHANA	16NM1A0559	DXC TECHNOLOGY	11611768
15.	V K K MAHALAKSHMI	16NM1A05B8	DXC TECHNOLOGY	11611787
16.	V JOSHNA KALYANI	16NM1A05B9	DXC TECHNOLOGY	VIEW/TP/20200113
17.	YELLETI HARITHA	16NM1A05C5	DXC TECHNOLOGY	11611785
18.	B JHANSI LAKSHMI	16NM1A05D5	DXC TECHNOLOGY	11611752
19.	AISHWARYA G	16NM1A0502	ACCENTURE	0d52298f-a08c-4f75-9719-1567794658b4_1
20.	AMPOLU SOUNDARYA	16NM1A0503	ACCENTURE	ab473f99-f10a-4f43-89d3-4a91fe66eaf3_1
21.	ATTA LAVANYA	16NM1A0510	ACCENTURE	VIEW/TP/20200004
22.	B. SONIYA SHYNE	16NM1A0513	ACCENTURE	bb51e648-bb6f-4851-bdde-d9634caac57d_1
23.	BORIGI BHANUSREE	16NM1A0522	ACCENTURE	0013ae07-76a9-44ef-97ac-67f34a0ea19b_1
24.	CH S L BHARATHI	16NM1A0524	ACCENTURE	77e0f949-d748-42fb-9bf9-ea54d9450d35_1
25.	CHUKKA RAMYA	16NM1A0527	ACCENTURE	9f17e44a-330a-4a34-a222-ed2dd3dd1349_1
26.	DAMULURI ANUSHA	16NM1A0529	ACCENTURE	c2839fcd-29fc-4e10-881e-0bbc2d92c7f8_1
27.	D VANDANA SRI	16NM1A0530	ACCENTURE	cdfc1bcf-2abd-42d9-b9f0-c0c88a5d92ad_1
28.	DEVUPALLI SIRISHA	16NM1A0531	ACCENTURE	ef9cfba3-454f-4d23-b068-a38489bdcb61_1
29.	EJJI DEEPIKA	16NM1A0535	ACCENTURE	dcefa4eb-d83c-4ad9-923b-cc7dbgf6979b_1
30.	G K K SOWMYA	16NM1A0537	ACCENTURE	a504462ef-3bfb-4a69-b323-4891555f5646-1
31.	K AMRUTHA SARVANI	16NM1A0557	ACCENTURE	b61ed94a-1cfa-4a94-b1cb-1ef5d807f162-1
32.	K YOGITHA	16NM1A0561	ACCENTURE	961d06a4-b4d8-45eb-a778-1a0576084f8e_1
33.	K S PRASANNA	16NM1A0562	ACCENTURE	c8456208
34.	KOYYA BHAVANA	16NM1A0563	ACCENTURE	15fb445f-22ef-4a18-811c-3ac36ecd7632_1
35.	M. SAMYUKTHA	16NM1A0574	ACCENTURE	48494edd-fd19-420c-94be-e6428e729dd0_1
36.	M PRAVALIKA	16NM1A0576	ACCENTURE	2e50c82c-02fb 43d9-8ea9-8f28b966d9bb_1
37.	PERUMALLA MANASA	16NM1A0591	ACCENTURE	11300879-80a1-401c-9218-7958bf1e7a95_1
38.	PILLA PRAVEENA	16NM1A0593	ACCENTURE	b3f0bf46-0c1c-42c2-b1da-aaf1d2be64c1_1
39.	P GUNA VARSHINI	16NM1A0595	ACCENTURE	be4fe2b0-2377-476f-8143-d6d217a5321a_1
40.	P SOWMYA	16NM1A0596	ACCENTURE	7af8f0b6-b207-469d-bd8e-b4a1f5b3110b_1
41.	SANAPATHI KAVITHA	16NM1A05A5	ACCENTURE	06299dcc-2f7b-4193-8e7e-ec7e1fa414cd_1
42.	SHABNAM	16NM1A05A7	ACCENTURE	VIEW/TP/20210055
43.	Y P LAKSHMI	16NM1A05C2	ACCENTURE	35c1bb4a-c0ec-4154-ae5c-f2a984b3e839_1
44.	D JHANSI REDDY	16NM1A05E3	ACCENTURE	120d5676-85b6-4314-9a0d-a1b6c6e1f1a6_1
45.	KODALI SRI HARSHA	16NM1A05G0	ACCENTURE	8ff95b29-bd09-4bcf-b60f-d4590ecb71d9_1
46.	V H CHOWDARY	16NM1A05H8	ACCENTURE	b7faddec-8e0d-4548-9f49-2f5713323642_1
47.	B HYNDAVI	16NM1A05D0	VALUE CHAIN	10000217
48.	G ANUSHA	16NM1A0541	CAPGEMINI	4105636/514300
49.	K NAVYA SREE	16NM1A0565	CAPGEMINI	4412466/732702
50.	MADALA AMULYA	16NM1A0568	CAPGEMINI	VIEW/TP/20200187
51.	N MARY VINCENT	16NM1A0582	CAPGEMINI	4265112/585373
52.	POTNURU ANKITHA	16NM1A0597	CAPGEMINI	HR/CAMPUS/LO14618533/1
53.	Y VASANTHA	16NM1A05C6	CAPGEMINI	HR/CAMPUS/LO14618695/1

54.	A D R DEVI	16NM1A05C7	CAPGEMINI	HR/CAMPUS/LO14618450/1
55.	GALLA MOUNIKA	16NM1A05E7	CAPGEMINI	TCSL/DT20195260557/1303748/HYDERABAD
56.	K KAVYA SREE	16NM1A05F6	CAPGEMINI	HR/CAMPUS/LO14619058/1
57.	KEERTHI HIMA BINDU	16NM1A05F8	CAPGEMINI	HR/CAMPUS/LO14619117/1
58.	MUNTHA KEERTHI	16NM1A05G7	CAPGEMINI	HR/CAMPUS/LO14619114/1
59.	PILLA HARSHIKA	16NM1A05G9	CAPGEMINI	HR/CAMPUS/LO14619075/1
60.	SATHVIKA RANGURI	16NM1A05H3	CAPGEMINI	HR/CAMPUS/LO14619277/1
61.	SAHUKARU SNIGTHA	16NM1A05A3	COGNIZANT	14637329
62.	B S S NAGA LALITHA	17NM5A0502	COGNIZANT	13906422
63.	K M PRATHYUSHA	16NM1A0554	INFOSYS	HRD/1000890887
64.	GUNTROTHU DEVI	16NM1A0545	TCS	TCSL/DT20195258468/Hyderabad
65.	JAGGINA DIVYA	16NM1A0549	TCS	TCSL/DT20195269079/Hyderabad
66.	KAZA PRATHYUSHA	16NM1A0555	TCS	TCSL/DT20195252884/hyderabad
67.	MALLIDI SINDHU	16NM1A0569	TCS	TCSL/DT20195252836/1303701/Hyderabad
68.	N. BHAGYA LAKSHMI	16NM1A0579	TCS	TCSL/DT20195308697/Hyderabad
69.	PEDIREDLA VASUDHA	16NM1A0588	TCS	TCSL/DT20195495989/Hyderabad
70.	SRAVYA S	16NM1A05A9	TCS	TCSL/DT20184835119/1324948/HYDERABAD
71.	VELAGA PRATYUSHA	16NM1A05C0	TCS	TCSL/DT20195252884/Hyderabad
72.	K LAHARI	16NM1A05F3	TCS	TCSL/DT20195507296/mumbai
73.	R L SAI MAMBA	16NM1A05H1	TCS	TCSL/DT20195255658/Hyderabad
74.	M V SATYA BHAVANI	16NM1A0571	CAPGEMINI	HR/CAMPUS/LO14620061/1
75.	VURUKUTI KEERTHI	16NM1A05C1	INFOSYS	HRD/3T/1000890606/20-21
76.	ASURI SUKANYA	16NM1A0509	INFOSYS	HRD/3T/1000890594/2021
77.	CHITTULURI ALEKYA	16NM1A0526	INFOSYS	HRD/3T/1000890599/2021
78.	I BHAGYA LAKSHMI	16NM1A0547	INFOSYS	1000890884
79.	LAGUDU ANUSHA	16NM1A0566	INFOSYS	VIEW/TP/20200501
80.	PATRO YAMINI	16NM1A0587	INFOSYS	HRD/3T/1000890893/20-21
81.	S JYOTHSNA	16NM1A05A4	INFOSYS	HRD/3T/1000891376/20-21
82.	TRIVENI POSSARLA	16NM1A05B3	INFOSYS	HRD/3T/1002110870/21-22
83.	K DIVYA SRI	16NM1A05G3	INFOSYS	HRD/3T/1000891121/20-21
84.	G DURGA BHAVANI	17NM5A0506	INFOSYS	HRD/3T/10008600839/20-21
85.	YEGI SRIYA	16NM1A05C3	WIPRO	VIEW/TP/20200197
86.	KUKRA USHA	16NM1A05G2	WIPRO	VIEW/TP/20200465
87.	M SRI RANGINI	16NM1A0581	TECH MAHINDRA	821689/1900862/ELTP
88.	A SURYA SAI SUPRIYA	16NM1A0508	TECH MAHINDRA	821689/1900863/ELTP
89.	JAGGAPU SWETHA	16NM1A0548	TECH MAHINDRA	839093/1949690/ELTP
90.	R SRAVANI SANDHYA	16NM1A05A1	TECH MAHINDRA	845402/1960652/ELTP
91.	S LIKHITHA	16NM1A05B0	TECH MAHINDRA	1949702
92.	THAMIRA POOJA	16NM1A05B1	TECH MAHINDRA	821689/1900869/ELTP
93.	T KUSUMA SARIKA	16NM1A05B5	TECH MAHINDRA	845402/1960624/ELTP
94.	GANAGALLA ANUSHA	17NM5A0505	TECH MAHINDRA	1488985/ELTP/2020
95.	MANDAVA NIKITHA	16NM1A05G5	SUTHERLAND	VIEW/TP/20200320
96.	V SATYA PRIYANKA	16NM1A05H9	SUTHERLAND	VIEW/TP/20200386
97.	D VASANTHA	17NM5A0503	SUTHERLAND	VIEW/TP/20200387
98.	A SAI VAISHNAVI	16NM1A0504	SUTHERLAND	VIEW/TP/20200324
99.	A SOWGANDHI PIRIDI	16NM1A0506	SUTHERLAND	VIEW/TP/20200274
100.	BALAKA HARIKA	16NM1A0511	SUTHERLAND	VIEW/TP/20200325

101.	BAMMIDI SARITHA	16NM1A0514	SUTHERLAND	VIEW/TP/20200326
102.	B ROSHINIDEVI	16NM1A0515	SUTHERLAND	VIEW/TP/20200490
103.	B BEGUM	16NM1A0516	SUTHERLAND	VIEW/TP/20200375
104.	BONDHI ANJALI	16NM1A0520	SUTHERLAND	VIEW/TP/20200491
105.	C DEEKSHITHA	16NM1A0525	SUTHERLAND	VIEW/TP/20200492
106.	DUNNA YAMUNA	16NM1A0533	SUTHERLAND	VIEW/TP/20200493
107.	G RUPA SANTHI SREE	16NM1A0538	SUTHERLAND	VIEW/TP/20200494
108.	GUNDA MOUNIKA	16NM1A0543	SUTHERLAND	VIEW/TP/20200495
109.	G LAKSHMI TULASI	16NM1A0546	SUTHERLAND	VIEW/TP/20200496
110.	JAJULA POORNIMA	16NM1A0550	SUTHERLAND	VIEW/TP/20200498
111.	K CHINNI	16NM1A0556	SUTHERLAND	VIEW/TP/20200499
112.	MANASA SAGORI	16NM1A0570	SUTHERLAND	VIEW/TP/20200502
113.	RAVUPALLI SAI PRIYA	16NM1A05A0	SUTHERLAND	VIEW/TP/20200306
114.	T SAHITHI	16NM1A05B2	SUTHERLAND	C0314
115.	CHEKURI DIVYA SRI	16NM1A05D8	SUTHERLAND	VIEW/TP/20200311
116.	CH V PRAVALLIKA	16NM1A05D9	SUTHERLAND	VIEW/TP/20200312
117.	KASU ANJALI	16NM1A05F7	SUTHERLAND	11611754
118.	K VIJAYALAKSHMI	16NM1A05G4	SUTHERLAND	VIEW/TP/20200384
119.	M N S ROOPA SRI	16NM1A05G6	SUTHERLAND	VIEW/TP/20200322
120.	P TANMAY	16NM1A05G8	SUTHERLAND	VIEW/TP/20200323
121.	POTHINA BHARGAVI	16NM1A05H0	SUTHERLAND	VIEW/TP/20200385
122.	SAVALAPU GIRIJA	17NM5A0510	SUTHERLAND	VIEW/TP/20200382
123.	K SAI SIRI SOWJANYA	16NM1A0564	ALL SEC TECHN	VIEW/TP/20200081
124.	M POORNA JYOTHSNA	16NM1A0578	CHANDH SOFT	CSTL0744
125.	AHAMED UNNISA	16NM1A0501	NVIDIA	VIEW/TP/20200170
126.	ANDE SOWMYA SRI	16NM1A0505	IPROCESS	VIEW/TP/20200171
127.	B YAGNASHIREESHA	16NM1A0517	IPROCESS	VIEW/TP/20200174
128.	B MAMALA SRIDEVI	16NM1A0518	IPROCESS	VIEW/TP/20200175
129.	BHAIRI SURYA TEJA	16NM1A0519	IPROCESS	VIEW/TP/20200176
130.	CHAKKA SWAPNA	16NM1A0523	IPROCESS	VIEW/TP/20200179
131.	LANKADA VINEETHA	16NM1A0567	IPROCESS	VIEW/TP/20200186
132.	MANNE GEETHASRI	16NM1A0572	IPROCESS	VIEW/TP/20200188
133.	M SAILAJA	16NM1A0577	IPROCESS	VIEW/TP/20200503
134.	P NEELA VENI	16NM1A0585	IPROCESS	VIEW/TP/20200190
135.	PVEENAVAIBHAVI	16NM1A0589	IPROCESS	VIEW/TP/20200191
136.	PENMATSA LAVANYA	16NM1A0590	IPROCESS	VIEW/TP/20200505
137.	POTNURU ANUSHA	16NM1A0598	IPROCESS	VIEW/TP/20200507
138.	SHIMI JOHN	16NM1A05A8	IPROCESS	VIEW/TP/20200021
139.	TUMMAPALA JAYA	16NM1A05B4	IPROCESS	VIEW/TP/20200194
140.	V PRATHYUSHA	16NM1A05B7	IPROCESS	VIEW/TP/20200195
141.	BAGI SAI KEERTHI	16NM1A05D2	IPROCESS	VIEW/TP/20200199
142.	DEVARA VANDANA	16NM1A05E2	IPROCESS	VIEW/TP/20200271
143.	G DEVAHARSHINI	16NM1A05F0	IPROCESS	VIEW/TP/20200192
144.	GURUVU YASASWANI	16NM1A05F1	IPROCESS	VIEW/TP/20200204
145.	J DEEKSHITA	16NM1A05F2	IPROCESS	VIEW/TP/20200205
146.	A R LAXMI	17NM5A0501	IPROCESS	VIEW/TP/20200210
147.	SURADA RAJESWARI	17NM5A0511	IPROCESS	VIEW/TP/20200387

148.	UMMIDI INDHIRA	17NM5A0512	IPROCESS	VIEW/TP/20200085
149.	PILLA POOJA	16NM1A0592	SLK SOFT/VFISLK	VFI SLK83680

Table B.4.5.b: CAYm1 (2019-20) Placed students of 2016 Admitted batch

The placement data portrays the quality of the placements in our institute that are provided by the highly rated MNCs like Amazon, Microsoft, Juspay, Accenture, MAQ software. Two students are excelled by securing a job as System Developer in Amazon with package of 19 LPA. Another two students excelled in Microsoft with a package of 9.8 LPA and one more student rocked in Juspay with 12 LPA.

Placement students of 2015 Admitted batch, 2018-19				
Sl. No	**Name of the student placed**	**Enrollment No.**	**Name of the Employer**	**Appointment letter Reference No. with date**
1.	K. MADHAVI	15NM1A0559	AMAZON	VIEW/TP/20190107
2.	R V S R NVAISHNAVI	15NM1A0593	TEK SYSTEMS	VIEW/TP/20190321
3.	K V L SUSMITHA	15NM1A0547	ACCENTURE	5823933201017899-1
4.	A PRAVALLIKA	15NM1A0506	SYNTEL	VIEW/TP/20190398
5.	ANUSHA K	15NM1A0507	SYNTEL	VIEW/TP/20190399
6.	A S SIRISHA	15NM1A0508	SYNTEL	VIEW/TP/20190400
7.	B MOUNIKA	15NM1A0513	SYNTEL	VIEW/TP/20190401
8.	K S LAKSHMI	15NM1A0542	SYNTEL	VIEW/TP/20190402
9.	KMADHUMITHA	15NM1A0546	SYNTEL	VIEW/TP/20190403
10.	KSUSHMITHA	15NM1A0556	SYNTEL	VIEW/TP/20190404
11.	MNEELIMA	15NM1A0570	SYNTEL	VIEW/TP/20190405
12.	N SRAVYA	15NM1A0573	SYNTEL	VIEW/TP/20190406
13.	N M SOWJANYA	15NM1A0574	SYNTEL	VIEW/TP/20190407
14.	PPRATHYUSHA	15NM1A0584	SYNTEL	VIEW/TP/20190408
15.	S KAVYA	15NM1A0599	SYNTEL	VIEW/TP/20190409
16.	T SAI RENUKA	15NM1A05B2	SYNTEL	VIEW/TP/20190410
17.	TANUSHA	15NM1A05B3	SYNTEL	VIEW/TP/20190324
18.	V SUMA	15NM1A05B9	SYNTEL	VIEW/TP/20190411
19.	G H ANASARI	15NM1A05D4	SYNTEL	VIEW/TP/20190412
20.	K G RATNAM	15NM1A05H6	SYNTEL	VIEW/TP/20190415
21.	V PRIYANKA	15NM1A05C0	TCS CODE VITA	TCSI/DT/20184349423/HYD
22.	SBHAGYASRI	15NM1A05G8	CAPGEMINI	HR/CAMPUS/LO201941858
23.	K KIRANMAI	15NM1A0554	CAPGEMINI	HR/CAMPUS/LO201941868
24.	A KRISHNA VENI	16NM5A0501	CAPGEMINI	HR/CAMPUS/LO201941875
25.	B PADMAVATHI	15NM1A0515	CAPGEMINI	HR/CAMPUS/LO201941876
26.	G LLAVANYA	15NM1A0537	CAPGEMINI	HR/CAMPUS/LO201941886
27.	RUBY KUMARI	15NM1A0596	CAPGEMINI	HR/CAMPUS/LO201941887
28.	P SAI RAJEEVI	15NM1A0578	CAPGEMINI	HR/CAMPUS/LO201941901
29.	D SOWJANYA	15NM1A0520	IBM	VIEW/TP/20190106
30.	A DIVYA	15NM1A0503	INFOSYS	VIEW/TP/20190351

31.	K TEJA SREE	15NM1A0551	INFOSYS	VIEW/TP/20190352
32.	D LALITA	15NM1A05C5	TCS	TCSI/DT/20182473847/HYD
33.	PVYSALI	15NM1A05G3	TCS	TCSI/DT/20184294308/HYD
34.	M HARIKA	15NM1A0564	TCS	TCSI/DT/20184336784/HYD
35.	M NIKHILA	15NM1A0572	TCS	TCSI/DT/20184348454/HYD
36.	D HARSHITHA	15NM1A0521	TCS	TCSI/DT/20184414542/HYD
37.	GJAYAMADHURI	15NM1A0533	TCS	TCSI/DT/20184414625/HYD
38.	CG SOUJANYA	15NM1A0519	TCS	TCSI/DT/20184414742/HYD
39.	K SUPRIYA	15NM1A0562	TCS	TCSI/DT/20184440528/HYD
40.	K VASAVI	15NM1A0541	TCS	TCSI/DT/20184475958/HYD
41.	M K SWETHA	15NM1A0568	WIPRO	8038254
42.	G S VANDANA	15NM1A0530	WIPRO	8129318
43.	A M GAYATHRI	15NM1A0504	WIPRO	8220382
44.	K LALITHA	15NM1A0560	WIPRO	8243463
45.	U S PRAHARSHINI	15NM1A05H2	WIPRO	8245122
46.	L ANURADHA	15NM1A0563	WIPRO	8245124
47.	P NIHARIKA	15NM1A0592	WIPRO	8246416
48.	M PAVANI	15NM1A0569	WIPRO	8247190
49.	G S SARANYA	15NM1A0531	WIPRO	8263542
50.	A D MOUNIKA	15NM1A0502	WIPRO	8264803
51.	P HIMA SUSHMA	15NM1A0585	WIPRO	8266723
52.	P MANORANJANI	15NM1A0579	WIPRO	8267265
53.	P RAMYA	15NM1A0589	WIPRO	8273998
54.	M SRIVALLI	15NM1A05F0	WIPRO	8345612
55.	S VINEETHA	15NM1A05A9	WIPRO	8402015
56.	O N D MANISHA	15NM1A0577	WIPRO	8404154
57.	K CHARISHMA	15NM1A0550	WIPRO	8404587
58.	L DHANALAXMI	16NM5A0506	WIPRO	8413152
59.	T P NAGA MOUNIKA	15NM1A05B5	WIPRO	8421153
60.	POORNIMA NAG	15NM1A05G4	WIPRO	8426412
61.	N SOWMYALATHA	15NM1A0575	WIPRO	8456126
62.	P GEETHANJALI	15NM1A0583	WIPRO	8465062
63.	I BHARGAVI	15NM1A0538	WIPRO	8486668
64.	S SUREKHA	15NM1A05A5	COGNIZANT	VIEW/TP/20190347
65.	J SAI SIRISHA	15NM1A0539	QSPIDERS	VIEW/TP/20190296
66.	K PALLAVI	15NM1A0552	QSPIDERS	VIEW/TP/20190297
67.	K B PRAKASANI	15NM1A05D9	QSPIDERS	VIEW/TP/20190298
68.	LAKSHMI SOUJANYA	15NM1A05E5	QSPIDERS	VIEW/TP/20190299
69.	NLALITHA NAGASAI	15NM1A0576	PATHFRONT	PFSDS/B001/236/22122018
70.	S GYANA PRIYA	15NM1A05A0	PATHFRONT	PFSDS/B001/238/22122018
71.	K SNEHA	15NM1A05E2	PATHFRONT	PFSDS/B001/241/22122018
72.	M RATNA SAHITHI	15NM1A05E7	PATHFRONT	PFSDS/B001/243/22122018
73.	P UMA PADMAJA	15NM1A05F9	PATHFRONT	PFSDS/B001/245/22122018
74.	P HARIKA	15NM1A05G2	PATHFRONT	PFSDS/B001/246/22122018
75.	SIRISHA DOLAI	15NM1A05G9	PATHFRONT	PFSDS/B001/247/22122018
76.	S SHUSHMA SREE	15NM1A05A6	PATHFRONT	PFSDS/B001/254/22122018
77.	B PAVANI	15NM1A0510	PATHFRONT	PFSDS/B001/256/22122018

78.	DS PRAGNA SREE	15NM1A0524	PATHFRONT	PFSDS/B001/257/22122018
79.	DSHARMILA	15NM1A0525	PATHFRONT	PFSDS/B001/258/22122018
80.	MKAVITHA	15NM1A0567	PATHFRONT	PFSDS/B001/259/22122018
81.	P SRI LAKSHMI KAVYA	15NM1A0586	PATHFRONT	PFSDS/B001/261/22122018
82.	VSRI KAVYA	15NM1A05B7	PATHFRONT	PFSDS/B001/265/22122018
83.	V SHARMILA	15NM1A05B8	PATHFRONT	PFSDS/B001/267/22122018
84.	ANUPRIYA ACHARYA	15NM1A05C2	PATHFRONT	PFSDS/B001/268/22122018
85.	P SREEJA	15NM1A0588	GLENWOOD SYS	VIEW/TP/20190343
86.	DKAMALESHWARI	15NM1A0522	MPHASIS	MPHTH2019-0797
87.	EYAMINI PRIYANKA	16NM5A0503	CONDUENT	VIEW/TP/20190349
88.	MNAVYA	15NM1A0565	IBeON INFOTECH	VIEW/TP/20190111
89.	P V S S KMAHIMA	15NM1A0591	IBeON INFOTECH	VIEW/TP/20190115
90.	DGEETHIKA	15NM1A05C8	IBeON INFOTECH	VIEW/TP/20190117
91.	E POONAM SANJU	15NM1A05D1	IBeON INFOTECH	VIEW/TP/20190118
92.	K VENKATA YAMINI	15NM1A05E3	IBeON INFOTECH	VIEW/TP/20190120
93.	P DEEKSHITA	15NM1A05F5	IBeON INFOTECH	VIEW/TP/20190121
94.	RA V S S SOWMYA	15NM1A05G6	IBeON INFOTECH	VIEW/TP/20190124
95.	S T NAGA VANDANA	15NM1A05G7	IBeON INFOTECH	VIEW/TP/20190125
96.	TSHARMILA	15NM1A05H1	IBeON INFOTECH	VIEW/TP/20190127
97.	D MOUNIKA	15NM1A0523	IBeON INFOTECH	VIEW/TP/20190461
98.	G RAMYA	15NM1A0529	IBeON INFOTECH	VIEW/TP/20190462
99.	G KALYANI	15NM1A0532	IBeON INFOTECH	VIEW/TP/20190463
100.	K SRIHITHA	15NM1A0549	IBeON INFOTECH	VIEW/TP/20190464
101.	MKUSUMA	15NM1A0571	IBeON INFOTECH	VIEW/TP/20190465
102.	PASHALATHA	15NM1A0582	IBeON INFOTECH	VIEW/TP/20190466
103.	P JUSHITHA	15NM1A0587	IBeON INFOTECH	VIEW/TP/20190467
104.	S N S T MAHALAKSHMI	15NM1A05A4	IBeON INFOTECH	VIEW/TP/20190468
105.	DK L SAI SHIVANI	15NM1A05C6	IBeON INFOTECH	VIEW/TP/20190469
106.	GGOWTHAMI	15NM1A05D5	IBeON INFOTECH	VIEW/TP/20190470
107.	K GNANAMAI	15NM1A05E0	IBeON INFOTECH	VIEW/TP/20190471
108.	L DIVYASRI	15NM1A05E6	IBeON INFOTECH	VIEW/TP/20190472
109.	N V ARUNA RAMYA	15NM1A05F3	IBeON INFOTECH	VIEW/TP/20190473
110.	KUSUMA PRIYA K	15NM1A05E4	IT SEZ	VIEW/TP/20190322
111.	A MOUNIKA	15NM1A0501	THINKSYNQ	VIEW/TP/20190154
112.	A JAVERIA	15NM1A0505	THINKSYNQ	VIEW/TP/20190155
113.	A KAVYA REDDY	15NM1A0509	THINKSYNQ	VIEW/TP/20190158
114.	B SURYAMANI	15NM1A0511	THINKSYNQ	VIEW/TP/20190159
115.	B K HIMA CHANDANA	15NM1A0512	THINKSYNQ	VIEW/TP/20190160
116.	B MOUNICA	15NM1A0514	THINKSYNQ	VIEW/TP/20190161
117.	C BHANU SRI	15NM1A0517	THINKSYNQ	VIEW/TP/20190162
118.	C LAKSHMI SREE	15NM1A0518	THINKSYNQ	VIEW/TP/20190163
119.	E NAGAJYOTHI	15NM1A0527	THINKSYNQ	VIEW/TP/20190165
120.	G MOULIKA	15NM1A0536	THINKSYNQ	VIEW/TP/20190166
121.	J HIMABINDU	15NM1A0540	THINKSYNQ	VIEW/TP/20190167
122.	K RISHITHA	15NM1A0544	THINKSYNQ	VIEW/TP/20190168
123.	K SIRISHA	15NM1A0545	THINKSYNQ	VIEW/TP/20190169
124.	K LAHARI	15NM1A0555	THINKSYNQ	VIEW/TP/20190170

125.	K NIKITHA	15NM1A0557	THINKSYNQ	VIEW/TP/20190171
126.	K HARITHA	15NM1A0558	THINKSYNQ	VIEW/TP/20190172
127.	P SUJATHA	15NM1A0590	THINKSYNQ	VIEW/TP/20190174
128.	SaI BHAVANA B	15NM1A0597	THINKSYNQ	VIEW/TP/20190175
129.	SHAIK PARVINE	15NM1A05A1	THINKSYNQ	VIEW/TP/20190176
130.	SHAIK SANA SHARIFA	15NM1A05A3	THINKSYNQ	VIEW/TP/20190177
131.	T VANDANA	15NM1A05B6	THINKSYNQ	VIEW/TP/20190180
132.	B DIVYANJALI	15NM1A05C4	THINKSYNQ	VIEW/TP/20190181
133.	G INDIRA	15NM1A05D3	THINKSYNQ	VIEW/TP/20190182
134.	M VASANTHI	15NM1A05E8	THINKSYNQ	VIEW/TP/20190185
135.	O MKEERTHI	15NM1A05F4	THINKSYNQ	VIEW/TP/20190186
136.	P SWARNALATA	15NM1A05F8	THINKSYNQ	VIEW/TP/20190187
137.	PMAHATHI	15NM1A05G1	THINKSYNQ	VIEW/TP/20190188
138.	R MOUNIKA	15NM1A05G5	THINKSYNQ	VIEW/TP/20190189
139.	T CHARISHMA	15NM1A05H0	THINKSYNQ	VIEW/TP/20190190
140.	GVENKATA LAKSHMI	16NM5A0504	THINKSYNQ	VIEW/TP/20190192
141.	K MANGA VENI	16NM5A0505	THINKSYNQ	VIEW/TP/20190193
142.	M RAJESWARI	16NM5A0507	THINKSYNQ	VIEW/TP/20190194
143.	B PAVANI	15NM1A0516	I PROCESS	VIEW/TP/20190027
144.	G SAISIREESHA	15NM1A0528	I PROCESS	VIEW/TP/20190029
145.	K LIKHITHA	15NM1A0543	I PROCESS	VIEW/TP/20190032
146.	K LIKHITHA	15NM1A0548	I PROCESS	VIEW/TP/20190033
147.	K PRATYUSHA	15NM1A0561	I PROCESS	VIEW/TP/20190035
148.	M SUSMITHA	15NM1A0566	I PROCESS	VIEW/TP/20190036
149.	R TRILAKSHMI	15NM1A0594	I PROCESS	VIEW/TP/20190039
150.	S MOHINI PRIYANKA	15NM1A0598	I PROCESS	VIEW/TP/20190040
151.	SHAIK KARISHMA	15NM1A05A2	I PROCESS	VIEW/TP/20190041
152.	T JAYA SRI	15NM1A05B0	I PROCESS	VIEW/TP/20190042
153.	T NEELIMA	15NM1A05B1	I PROCESS	VIEW/TP/20190043
154.	T PRAVALLIKA	15NM1A05B4	I PROCESS	VIEW/TP/20190045
155.	Y BHARATHI	15NM1A05C1	I PROCESS	VIEW/TP/20190046
156.	DIMPLE SANTOSHI	15NM1A05C9	I PROCESS	VIEW/TP/20190047
157.	G MAHATHI	15NM1A05D6	I PROCESS	VIEW/TP/20190049
158.	G LIKITHA	15NM1A05D7	I PROCESS	VIEW/TP/20190050
159.	G HARITHA	15NM1A05D8	I PROCESS	VIEW/TP/20190183
160.	C DEVI	16NM5A0502	I PROCESS	VIEW/TP/20190058
161.	DRAMYA SREE	15NM1A05C7	IPROCESS	VIEW/TP/20190397
162.	S SAILAVANYA	15NM1A05A8	TECHMBPS	VIEW/TP/20190369
163.	M GAYATHRI	15NM1A05F1	TECHMBPS	VIEW/TP/20190371
164.	P K S VISHALAKSHI	15NM1A05F6	FLEXTROICS	VIEW/TP/20190417
165.	G SANDHYA RANI	15NM1A0535	FOX CONN	VIEW/TP/20190389

Table B.4.5.c: CAYm2 (2018-19) Placed students of 2015 Admitted batch

In 2017-18, MNCs like ZOHO Software, TCS, IBM, Capgemini, Infosys, and other top MNCs visited the campus and selected 142 students with highest package of 4.5 LPA and an average of 2.71 LPA.

Placement students of 2014 Admitted batch, 2017-18				
Sl. No	**Name of the student placed**	**Enrollment No.**	**Name of the Employer**	**Appointment letter Reference No. with date**
1.	M LAKSHMI LAVANYA	14NM1A0566	ZOHO SOFTWARE	ZCPL-2528/2/2018
2.	ASUBRAMANYAESWARI	14NM1A0503	TCS	VIEW/TP/20170013
3.	KPAVANI	14NM1A0555	TCS	VIEW/TP/20170020
4.	K GAYATRI	14NM1A0557	TCS	VIEW/TP/20170027
5.	K SIRISHA	14NM1A0559	TCS	VIEW/TP/20170033
6.	M SAILAJA	14NM1A0568	TCS	VIEW/TP/20170039
7.	DVIJAYA SINDHUJA	14NM1A0530	TCS	VIEW/TP/20170055
8.	D V L PRASANNA	14NM1A0527	ACCENTURE	VIEW/TP/20170047
9.	B HARSHAVARSHINI	14NM1A0505	ACCENTURE	VIEW/TP/20170137
10.	DUMA MAHESWARI	14NM1A0526	ADP PVT LTD	VIEW/TP/20170053
11.	SAI PRABAHA D	14NM1A0520	FLUNTGRID	VIEW/TP/20170061
12.	K SUDHA MANASA	14NM1A0558	FLUNTGRID	VIEW/TP/20170141
13.	A DHINEESHA	14NM1A0502	IBM	VIEW/TP/20170110
14.	C KARISHMA	14NM1A0516	IBM	VIEW/TP/20170157
15.	KJHANSI RANI	14NM1A0550	IBM	VIEW/TP/20170201
16.	K SAHANA	14NM1A0552	IBM	VIEW/TP/20170210
17.	L JAYA MADHURI	14NM1A0561	IBM	VIEW/TP/20170217
18.	MSREEJA REDDY	14NM1A0564	IBM	VIEW/TP/20170224
19.	NVENKATA SRAVANI	14NM1A0576	IBM	VIEW/TP/20170230
20.	P VEENA MADHURI	14NM1A0588	IBM	VIEW/TP/20170236
21.	YRENUKA	14NM1A05B0	IBM	VIEW/TP/20170242
22.	SHEETAL SINGH	14NM1A05F5	IBM	VIEW/TP/20170262
23.	AFSHEEN FIRDOUS	14NM1A0501	IBM	VIEW/TP/20170051
24.	C SUNITHA	14NM1A0515	IBM	VIEW/TP/20170139
25.	DKANAKARATNAM	14NM1A0531	IBM	VIEW/TP/20170171
26.	GHIMA BINDU	14NM1A0540	IBM	VIEW/TP/20170182
27.	KARUNA KUMARI	14NM1A0548	IBM	VIEW/TP/20170192
28.	D PRIYANKA REDDY	14NM1A05C9	IBM	VIEW/TP/20170247
29.	K SUPRAJA	14NM1A05D6	IBM	VIEW/TP/20170252
30.	R HARIKA	14NM1A05F1	IBM	VIEW/TP/20170257
31.	C MOUNIKA	15NM5A0503	IBM	VIEW/TP/20170267
32.	K RAVALI	14NM1A0554	MINDTREE	VIEW/TP/20170095
33.	PALEKHYA	14NM1A0589	MOURITECH	VIEW/TP/20170082
34.	B KUSUMANJALI	14NM1A0506	INFOSYS	VIEW/TP/20170065
35.	DN SIVA SAI KUMARI	14NM1A0518	INFOSYS	VIEW/TP/20170115
36.	EBHARGAVI	14NM1A0532	INFOSYS	VIEW/TP/20170143
37.	K RAJMA	14NM1A0542	INFOSYS	VIEW/TP/20170161
38.	K SATYA PUSHPANJALI	14NM1A0549	INFOSYS	VIEW/TP/20170172
39.	L HEMALATHA	14NM1A0560	INFOSYS	VIEW/TP/20170183

40.	S SANDHYA RANI	14NM1A0596	INFOSYS	VIEW/TP/20170193
41.	G ANUSHA	14NM1A05D0	INFOSYS	VIEW/TP/20170202
42.	KEERTHI NEERUKONDA	14NM1A05D7	INFOSYS	VIEW/TP/20170211
43.	S MONIKA	14NM1A05F6	INFOSYS	VIEW/TP/20170218
44.	C ESWARAMMA	15NM5A0504	INFOSYS	VIEW/TP/20170225
45.	B SHIVANI	14NM1A0507	NEUDESIC	VIEW/TP/20170066
46.	B PRASANTHI	14NM1A0511	CAPGEMINI	HR/Campus/201842474
47.	K SAI MOUNICA	14NM1A0544	CAPGEMINI	HR/Campus/201842475
48.	B VINISHA VAISHNAVI	14NM1A05C2	CAPGEMINI	HR/Campus/201842484
49.	D TEJASWINI	14NM1A0521	CAPGEMINI	HR/Campus/201842497
50.	AAKIDA BEGUM	14NM1A05B6	CAPGEMINI	HR/Campus/201842512
51.	D SULOCHANA	14NM1A0525	CAPGEMINI	HR/Campus/201842513
52.	LOHITHA C	14NM1A0563	CAPGEMINI	HR/Campus/201842515
53.	D DIVYANI	14NM1A05C7	CAPGEMINI	HR/Campus/201842517
54.	SIMRAN MALHOTRA	14NN1A0505	CAPGEMINI	HR/Campus/201842518
55.	G ANUSHA	14NM1A0537	CAPGEMINI	HR/Campus/201842527
56.	P GAYATRI	14NM1A0580	CAPGEMINI	HR/Campus/201842530
57.	V SAIANUSHA	14NM1A05G2	CAPGEMINI	HR/Campus/201842531
58.	V RENUKA	14NM1A05A4	CAPGEMINI	HR/Campus/201842532
59.	P SANDHYA	14NM1A0578	CAPGEMINI	HR/Campus/201842545
60.	B R SUSANDHYA HARINI	14NM1A0508	CAPGEMINI	HR/Campus/201842547
61.	B HIMA VARDHINI	14NM1A0509	CAPGEMINI	HR/Campus/201842548
62.	G OJESWANI	14NM1A0538	CAPGEMINI	HR/Campus/201842555
63.	M ALEKHYA	14NM1A0565	CAPGEMINI	HR/Campus/201842556
64.	D AMRITA VARMA	14NM1A05C8	CAPGEMINI	HR/Campus/201842557
65.	J SRAVANI	15NM5A0508	CAPGEMINI	HR/Campus/201842562
66.	V SUBHASRI	14NM1A05A9	CAPGEMINI	HR/Campus/201842563
67.	N BHAVANI	14NM1A05E4	CAPGEMINI	HR/Campus/201842564
68.	G LAVANYA	14NM1A0535	CAPGEMINI	HR/Campus/201842566
69.	N T KALA PAVANI	14NM1A0573	CAPGEMINI	HR/Campus/201842575
70.	P NAVYA	14NM1A0583	CAPGEMINI	HR/Campus/201842576
71.	G SOWMYA	14NM1A05D2	CAPGEMINI	HR/Campus/201842577
72.	V M RAJA RAJESWARI	14NM1A05A6	CAPGEMINI	HR/Campus/201842579
73.	B RAVI TEJESWARI	14NM1A0512	CAPGEMINI	HR/Campus/201842580
74.	O SUNITHA	14NM1A0577	COGNIZANT	VIEW/TP/20170088
75.	C THANUJA	14NM1A0514	FACE	VIEW/TP/20170073
76.	D RAVI CHANDRIKA	14NM1A0528	FACE	VIEW/TP/20170122
77.	G GOWRI PRIYANKA	14NM1A0539	FACE	VIEW/TP/20170145
78.	K HEMAJACINTHA	14NM1A0547	FACE	VIEW/TP/20170163
79.	S POOJA	14NM1A0593	FACE	VIEW/TP/20170185
80.	C ALEKHYA	14NM1A05C4	FACE	VIEW/TP/20170195
81.	K SUSHMITHA	14NM1A05D5	FACE	VIEW/TP/20170213
82.	P SOWJANYA	14NM1A05E7	FACE	VIEW/TP/20170220
83.	C BHAVANA LAKSHMI	15NM5A0502	FACE	VIEW/TP/20170227
84.	T SANDHYA RANI	15NM5A0512	FACE	VIEW/TP/20170233
85.	VARRE PAVANI	14NM1A05A7	THINKTEL	VIEW/TP/20170005
86.	Y HARIKA	14NM1A05B2	THINKTEL	VIEW/TP/20170014

87.	Y JAYA LAKSHMI	14NM1A05B3	THINKTEL	VIEW/TP/20170021
88.	B CHAARVI	14NM1A05B8	THINKTEL	VIEW/TP/20170028
89.	B VINEELA	14NM1A05B9	THINKTEL	VIEW/TP/20170034
90.	B JAYASRI	14NM1A05C0	THINKTEL	VIEW/TP/20170040
91.	S KEERTHI	15NM5A0509	THINKTEL	VIEW/TP/20170044
92.	S VAISHALI	13NM1A05B3	THINKTEL	VIEW/TP/20170046
93.	A KRUPA CHELSIA	14NM1A0504	THINKTEL	VIEW/TP/20170049
94.	C ANITHA	14NM1A0513	THINKTEL	VIEW/TP/20170109
95.	D BHAVANI	14NM1A0522	THINKTEL	VIEW/TP/20170138
96.	RENUKA D	14NM1A0523	THINKTEL	VIEW/TP/20170156
97.	SNEHA D	14NM1A0529	THINKTEL	VIEW/TP/20170170
98.	GANUSHA	14NM1A0536	THINKTEL	VIEW/TP/20170181
99.	K SOWJANYA	14NM1A0546	THINKTEL	VIEW/TP/20170191
100.	N R YADAV	14NM1A0572	THINKTEL	VIEW/TP/20170200
101.	NSUMANANJALI	14NM1A0575	THINKTEL	VIEW/TP/20170209
102.	B MURIEL SUPRIYA	14NM1A05C3	THINKTEL	VIEW/TP/20170223
103.	GSIRISHA	14NM1A05D4	THINKTEL	VIEW/TP/20170229
104.	PBHARGAVI	14NM1A05E6	THINKTEL	VIEW/TP/20170235
105.	CAPARNA	15NM5A0501	THINKTEL	VIEW/TP/20170241
106.	S PUSPALATHA	15NM5A0511	THINKTEL	VIEW/TP/20170246
107.	PPRASOONA	14NM1A0581	THINKTEL	VIEW/TP/20170083
108.	RAVALI	14NM1A05F2	AMAZON	VIEW/TP/20170069
109.	PLAVANYA	14NM1A0579	VDART SOFT	VIEW/TP/20170011
110.	P ROHINI	14NM1A0585	VDART SOFT	VIEW/TP/20170018
111.	P SIREESA	14NM1A0590	VDART SOFT	VIEW/TP/20170025
112.	S SANTHOSHI	14NM1A0595	VDART SOFT	VIEW/TP/20170032
113.	T MOUNICA	14NM1A0597	VDART SOFT	VIEW/TP/20170038
114.	V ARUNA KUMARI	14NM1A05A0	VDART SOFT	VIEW/TP/20170043
115.	M V L P HASHWITHA	14NM1A05E2	BRAINOVISION	VIEW/TP/20170093
116.	MVINISHA	14NM1A0567	BRAINOVISION	VIEW/TP/20170100
117.	DLAVANYA	15NM5A0506	BRAINOVISION	VIEW/TP/20170107
118.	I SWATHI	15NM5A0507	BRAINOVISION	VIEW/TP/20170106
119.	D NAGAMANI	14NM1A0519	SUTHERLAND	VIEW/TP/20170067
120.	GMOUNIKA	14NM1A0534	SUTHERLAND	VIEW/TP/20170117
121.	KLAKSHMI PRASANNA	14NM1A0543	SUTHERLAND	VIEW/TP/20170144
122.	KMADHAVI	14NM1A0551	SUTHERLAND	VIEW/TP/20170162
123.	V POOJASRI REDDY	14NM1A05A8	SUTHERLAND	VIEW/TP/20170184
124.	G BHAVANI	14NM1A05D1	SUTHERLAND	VIEW/TP/20170194
125.	SUNITHA SAHU	14NM1A05F7	SUTHERLAND	VIEW/TP/20170203
126.	T UMA	14NM1A05F8	SUTHERLAND	VIEW/TP/20170212
127.	CBHARATHI	15NM5A0505	SUTHERLAND	VIEW/TP/20170219
128.	A K SATYA MALAVIKA	14NM1A05B7	TECH MAHINDRA	VIEW/TP/20170096
129.	VTEJASWINI	14NM1A05G5	TECH MAHINDRA	VIEW/TP/20170134
130.	Y N V SWATHI	14NM1A05G6	TECH MAHINDRA	VIEW/TP/20170153
131.	VN S LAVANYA	14NM1A05A5	SACHIVALAYAM	VIEW/TP/20170136
132.	SAI SWATHI M	14NM1A05F3	HCL	VIEW/TP/20170056
133.	VPADMA SREE	14NM1A05G4	NAVAJNA TECH	VIEW/TP/20170098

134.	SHAIK ASMAN	15NM5A0510	OMNI CLOUD	VIEW/TP/20170099
135.	N HIMA BINDU	14NM1A0574	THINKTEL	VIEW/TP/20170084
136.	G SAI PRATHYUSHA	14NM1A05D3	IBEON INFOTECH	VIEW/TP/20170081
137.	BV VASUNDHARA	14NM1A0510	IBEON INFOTECH	VIEW/TP/20170010
138.	P DEVI SRI CHANDANA	14NM1A0587	IT KA KAAM	VIEW/TP/20170077
139.	D HIMA BINDU	14NM1A0517	CPGC PVT LTD	VIEW/TP/20170123
140.	V TEJASWI	14NM1A05A3	DXC TECH	VIEW/TP/20170089
141.	Y GEETANJALI	14NM1A05B1	DXC TECH	VIEW/TP/20170060
142.	S HARINI	14NM1A0594	GENPACT	VIEW/TP/20170076

Table B.4.5.d: CAYm3 (2017-18) Placed students of 2014 Admitted batch

In 2016-17, MNCs like Juspay, Microsoft, Innocore Digit, OpenText, TCS, Tech Mahindra, Capgemini, and other top MNCs visited the campus and selected 131 students with highest package of 12 LPA and an average of 2.67 LPA.

Placement data of Computer Science and Engineering, 2016-17				
Sl. No	**Name of the student placed**	**Enrollment No.**	**Name of the Employer**	**Appointment letter Reference No. with date**
1.	PMOWNIKA	14NM5A0519	JUSPAY	VIEW/TP/20170020
2.	BPBHARGAVI	13NM1A0516	MICROSOFT	VIEW/TP/20170024
3.	BVILLI JAGRUTHI	13NM1A0521	MICROSOFT	VIEW/TP/20170056
4.	THARITHA	13NM1A05B9	FLUENTGRID	VIEW/TP/20170014
5.	B KEERTHI	13NM1A0517	OPEN TEXT	VIEW/TP/20170027
6.	B MLAKSHMI	14NM5A0502	OPEN TEXT	VIEW/TP/20170058
7.	BBHARATHI	13NM1A0519	FLUENTGRID	VIEW/TP/20170011
8.	JSRAVYA	13NM1A0550	FLUENTGRID	VIEW/TP/20170053
9.	N A PRIYANKA	13NM1A0584	FLUENTGRID	VIEW/TP/20170070
10.	BMEENA	13NM1A0514	TCS	VIEW/TP/20170041
11.	SDIVYASRI	14NM5A0521	TCS	VIEW/TP/20170065
12.	G ANITHA	13NM1A0543	TECH MAHINDRA	1488747/ELTP/2017
13.	GHEMA SAI SREE	13NM1A0544	TECH MAHINDRA	1488748/ELTP/2017
14.	JHARIKA	13NM1A0549	TECH MAHINDRA	1488749/ELTP/2017
15.	KD BHAVANI	13NM1A0557	TECH MAHINDRA	1488750/ELTP/2017
16.	K SNEHA	13NM1A0562	TECH MAHINDRA	1488751/ELTP/2017
17.	MR BHAVANI	13NM1A0570	TECH MAHINDRA	1488752/ELTP/2017
18.	M SINDHURA	13NM1A0576	TECH MAHINDRA	1488753/ELTP/2017
19.	P DEVI BHAVYA	13NM1A0588	TECH MAHINDRA	1488754/ELTP/2017
20.	P LAVANYA	13NM1A0592	TECH MAHINDRA	1488755/ELTP/2017
21.	BPRATYUSHA	13NM1A0598	TECH MAHINDRA	1488756/ELTP/2017
22.	SABEHA	13NM1A05A9	TECH MAHINDRA	1488757/ELTP/2017
23.	S RPATNAIK	13NM1A05B1	TECH MAHINDRA	1488758/ELTP/2017
24.	STANOOJA RANI	13NM1A05B8	TECH MAHINDRA	1488759/ELTP/2017
25.	UANUSHA	13NM1A05C3	TECH MAHINDRA	1488760/ELTP/2017
26.	VMANASA	13NM1A05C7	TECH MAHINDRA	1488761/ELTP/2017
27.	Y SSYAMALA	13NM1A05D1	TECH MAHINDRA	1488762/ELTP/2017

28.	BDIVYA	14NM5A0504	TECH MAHINDRA	1488763/ELTP/2017
29.	J PRASANNA	14NM5A0509	TECH MAHINDRA	1488764/ELTP/2017
30.	JKAVITHA	14NM5A0510	TECH MAHINDRA	1488765/ELTP/2017
31.	KDEVI	14NM5A0512	TECH MAHINDRA	1488766/ELTP/2017
32.	KRAVALI	13NM1A0560	TECH MAHINDRA	1488767/ELTP/2017
33.	DSANGEETHA	13NM1A0535	TECH MAHINDRA	1488814/ELTP/2017
34.	G SIREESHA	13NM1A0542	TECH MAHINDRA	1488816/ELTP/2017
35.	PLEELA	13NM1A05A1	TECH MAHINDRA	1488824/ELTP/2017
36.	P SHARMILA	13NM1A05A2	TECH MAHINDRA	1488825/ELTP/2017
37.	SSWATHI	13NM1A05B4	TECH MAHINDRA	1488826/ELTP/2017
38.	S DIVYA	13NM1A05B5	TECH MAHINDRA	1488827/ELTP/2017
39.	CHINNI SUSANNA	13NM1A0526	TECH MAHINDRA	1488830/ELTP/2017
40.	BVINODINI	13NM1A0518	TECH MAHINDRA	1488832/ELTP/2017
41.	D JHANSI	13NM1A0531	TECH MAHINDRA	1488836/ELTP/2017
42.	DALEKHYA	13NM1A0536	TECH MAHINDRA	1488840/ELTP/2017
43.	MYAMINI	14NM5A0514	TECH MAHINDRA	1488841/ELTP/2017
44.	P SRAVANI	14NM5A0518	TECH MAHINDRA	1488842/ELTP/2017
45.	PSWATHI	13NM1A0596	TECH MAHINDRA	1488846/ELTP/2017
46.	APRATYUSHA	13NM1A0511	TECH MAHINDRA	1488847/ELTP/2017
47.	AD S KRANTHI	13NM1A0508	TECH MAHINDRA	1488848/ELTP/2017
48.	CSOWMYA	13NM1A0523	TECH MAHINDRA	1488850/ELTP/2017
49.	DBHAVANI	13NM1A0529	TECH MAHINDRA	1488852/ELTP/2017
50.	DALEKHYA	13NM1A0533	TECH MAHINDRA	1488854/ELTP/2017
51.	Y M V SWETHA	13NM1A05D3	CAPGEMINI	HR/Campus/2017101482
52.	P ANVESHITHA	13NM1A0585	CAPGEMINI	HR/Campus/2017101487
53.	C RENUKA	14NM5A0507	GENPACT	VIEW/TP/20170003
54.	A SRI VATSAVI	13NM1A0507	GENPACT	VIEW/TP/20170012
55.	KKALYANI	13NM1A0566	GENPACT	VIEW/TP/20170054
56.	M MANASA	14NM5A0515	THOUGHTWAVE	VIEW/TP/20170044
57.	C APARNA	13NM1A0527	EXPERIS IT	VIEW/TP/20170009
58.	K S PRIYA	13NM1A0558	EXPERIS IT	VIEW/TP/20170051
59.	P RAGINI	13NM1A0586	EXPERIS IT	VIEW/TP/20170069
60.	R DEVI SOWJANYA	13NM1A05A6	EXPERIS IT	VIEW/TP/20170080
61.	T DIVYASRI	13NM1A05C2	EXPERIS IT	VIEW/TP/20170087
62.	C SNEHA	13NM1A0525	DELL	VIEW/TP/20170007
63.	B SARANYA	14NM5A0505	EGS-INFOTECH	VIEW/TP/20170008
64.	ASARVANI	13NM1A0503	HCL	VIEW/TP/20170110
65.	A ANITHA	13NM1A0505	HCL	VIEW/TP/20170026
66.	A SRIMANJU	13NM1A0509	HCL	VIEW/TP/20170130
67.	A SRAVYA	13NM1A0510	HCL	VIEW/TP/20170142
68.	B JASMITHA	13NM1A0512	HCL	VIEW/TP/20170154
69.	B SRUJANA	13NM1A0513	HCL	VIEW/TP/20170166
70.	B B J RAVALI	13NM1A0515	HCL	VIEW/TP/20170178
71.	BVARA LAKSHMI	13NM1A0522	HCL	VIEW/TP/20170190
72.	D VIJAYA	13NM1A0538	HCL	VIEW/TP/20170202
73.	KGEETANJALI	13NM1A0553	HCL	VIEW/TP/20170214
74.	K BHAVANA	13NM1A0555	HCL	VIEW/TP/20170217

75.	K AKHILA	13NM1A0561	HCL	VIEW/TP/20170219
76.	M LASYA RAVALI	13NM1A0577	HCL	VIEW/TP/20170223
77.	N SARIKA	13NM1A0581	HCL	VIEW/TP/20170225
78.	V RAJESWARI	14NM5A0522	HCL	VIEW/TP/20170323
79.	M SWATHI PRIYA	12NM1A0563	HCL	VIEW/TP/20170324
80.	ROJA D	12NM1A0594	HCL	VIEW/TP/20170325
81.	K MADHURI	13NM1A0552	HCL	VIEW/TP/20170022
82.	K B S KUMARI	13NM1A0554	MIRCALE SOFT	VIEW/TP/20170057
83.	P LVAIBHAVI	13NM1A0594	BRAINOVISION	VIEW/TP/20170074
84.	S VN SRI VALLI	13NM1A05B2	BRAINOVISION	VIEW/TP/20170043
85.	B DEVISRI	14NM5A0506	BRAINOVISION	VIEW/TP/20170106
86.	N SUBHA SRI	14NM5A0516	BRAINOVISION	VIEW/TP/20170038
87.	A BHARGAVI	13NM1A0502	SUTHERLAND	VIEW/TP/20170039
88.	B DEVI	13NM1A0520	SUTHERLAND	VIEW/TP/20170084
89.	D LAVANYA	13NM1A0530	SUTHERLAND	VIEW/TP/20170091
90.	D RSHANTHI	13NM1A0537	SUTHERLAND	VIEW/TP/20170096
91.	G SUDHESHNA	13NM1A0539	SUTHERLAND	VIEW/TP/20170099
92.	G V RATNA MALA	13NM1A0540	SUTHERLAND	VIEW/TP/20170102
93.	G HARIKA	13NM1A0541	SUTHERLAND	VIEW/TP/20170105
94.	J PRANATHI	13NM1A0548	SUTHERLAND	VIEW/TP/20170114
95.	SAHU K RASHMI	13NM1A0551	SUTHERLAND	VIEW/TP/20170116
96.	K DIVYA	13NM1A0556	SUTHERLAND	VIEW/TP/20170118
97.	K SWATHI	13NM1A0565	SUTHERLAND	VIEW/TP/20170120
98.	M DBHAVANI	13NM1A0578	SUTHERLAND	VIEW/TP/20170123
99.	M DEEPIKA	13NM1A0580	SUTHERLAND	VIEW/TP/20170124
100.	N LIKHITHA	13NM1A0582	SUTHERLAND	VIEW/TP/20170125
101.	N POOJA	13NM1A0583	SUTHERLAND	VIEW/TP/20170023
102.	VDIVYA	13NM1A05C6	SUTHERLAND	VIEW/TP/20170132
103.	Y NAVEENA	13NM1A05D2	SUTHERLAND	VIEW/TP/20170133
104.	B VBHARATHI	14NM5A0503	SUTHERLAND	VIEW/TP/20170134
105.	K USHA INDRAJA	14NM5A0511	SUTHERLAND	VIEW/TP/20170135
106.	P LALITHA	14NM5A0517	SUTHERLAND	VIEW/TP/20170136
107.	L MANASA	13NM1A0567	SUTHERLAND	VIEW/TP/20170209
108.	L L KUMARI	13NM1A0569	SUTHERLAND	VIEW/TP/20170210
109.	M R CHOWDARY	13NM1A0571	SUTHERLAND	VIEW/TP/20170211
110.	MRIZWANA	13NM1A0573	SUTHERLAND	VIEW/TP/20170212
111.	M DEEPTHI	13NM1A0575	SUTHERLAND	VIEW/TP/20170213
112.	P HARINI SREE	13NM1A0589	SUTHERLAND	VIEW/TP/20170216
113.	C SHANTHI	13NM1A0524	TECTURA INFO	VIEW/TP/20170042
114.	K JHANSI	13NM1A0564	TECTURA INF	VIEW/TP/20170066
115.	S L SATYA JYOTHI	13NM1A05B6	TECTURA INF	VIEW/TP/20170077
116.	D S MOUNIKA	13NM1A0528	HGS	VIEW/TP/20170131
117.	G DIVYA	13NM1A0532	HGS	VIEW/TP/20170143
118.	D PALLAVI	13NM1A0534	HGS	VIEW/TP/20170155
119.	G MANASA	13NM1A0545	HGS	VIEW/TP/20170167
120.	R SUSHMA	13NM1A05A5	HGS	VIEW/TP/20170191
121.	T VASAVI	13NM1A05C1	HGS	VIEW/TP/20170203

122.	V L BHAVANI	13NM1A05C9	HGS	VIEW/TP/20170215
123.	DSOWJANYA	14NM5A0508	HGS	VIEW/TP/20170218
124.	K B SAI ARUNA	14NM5A0513	HGS	VIEW/TP/20170220
125.	P KKARUNA	14NM5A0523	HGS	VIEW/TP/20170222
126.	J VASAVI	13NM1A0547	HGS	VIEW/TP/20170015
127.	V VASUNDHARA	13NM1A05C5	HGS	VIEW/TP/20170032
128.	K G LPRIYANKA	13NM1A0563	HGS	VIEW/TP/20170033
129.	S LPRASANNA	14NM5A0520	HGS	VIEW/TP/20170108
130.	B DEVI	14NM5A0501	HGS	VIEW/TP/20170109
131.	TMARY GRACY	13NM1A05C0	PATHRA TECH	VIEW/TP/20170028

Table B.4.5.e: CAYm1 (2016-17) Placed students of 2013 Admitted batch

4.6. Professional Activities (20)

4.6.1. Professional societies/chapters and organizing engineering events (5)

Department of Computer Science and Engineering is associated with various professional societies and student chapters to aware the needs of industry 4.0. The co-circular and extra circular events are organized in collaboration with professional bodies/ student chapters. They assist the students by providing internships on their platform which enhances the real time technical skills on domains like Machine Learning, Web development, project management etc.

Sl. No	Professional Society	Logo
1.	IEEE (Institute of Electrical and Electronics Engineers)	
2.	IEI (The Institution of Engineers)	
3.	Code chef Student Chapter	
4.	Internshala Student partner	
5.	CSEA (Champions of Software Enigma Association)	
6.	Women Techmakers	

7.	APSSDC – Skill Development Centre	
8.	Microsoft Student Partner	
9.	Google Developer's Group	

Table B.4.6.1.a: List of Professional society / Student chapters

Sl. No	Name of the Professional Society Students' Chapter	Student Memberships			
		2020-21	2019-20	2018-19	2017-18
1.	IEEE	4	-	-	-
2.	IEI	40	140	245	-
3.	Codechef Student Chapter	5	16	10	-
4.	Internshala Student partner	120	110	90	60
5.	CSEA (Champions of Software Enigma Association)	580	574	566	542
6.	Women Techmakers	30	30	18	12
7.	APSSDC – Skill Development Centre	580	574	566	542
8.	Microsoft Student Partner	30	29	15	11
9.	Google Developer's Group	35	32	24	17

Table B.4.6.1.b: Student Memberships in Professional society / Student chapters

Sl. No	Name of the Professional Society Student's Chapter	Events Organized			
		2020-21	2019-20	2018-19	2017-18
1.	IEI	2	4	1	1
2.	Internshala Student partner	3	2	4	2
3.	CSEA (Champions of Software Enigma Association)	4	5	3	3
4.	Women Techmakers	3	2	1	2
5.	Microsoft Student Partner	1	1	1	-
6.	Google Developer's Group	2	1	-	-
7.	APSSDC- Skill Development Centre	-	2	5	4

Table B.4.6.1.c: Number of Events organized

S.NO	Event	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	Workshops	05	11	10	10
2	Guest lectures	06	13	07	05
3	Seminars	07	06	05	05
4	Internships	48	83	54	48

Table B.4.6.1.d: Consolidated Sheet of annual student activities

CAY (2020-21)

S.No	Name of the Event	Date	Resource Person	Association with	No. of participants	Relevance's PO'S & PSO'S
1.	Workshop on Android Application Development	15.03.2021 to 20.03.2021	Mr.M.V.Gopi, Mr.G.Srikanth, APSSDC.Trainers	Google Developers Group	166	PO1, PO2,PO3, PO5 PSO1, PSO2
2.	Workshop on Internet of Things	22.02.2021 to 27.02.2021	Mr.G.Sreenivas, APSSDC.Trainer	Microsoft Student Partner	188	PO1,PO2,PO3,PO4, PO5,PSO1,PSO2
3.	Workshop on MachineLearning Using Python	22.02.2021 to 27.02.2021	Mr.T.Ravi Kishore, APSSDC.Trainer	CSEA	181	PO1, PO2, PO3, PO5, PSO1, PSO2
4.	Workshop on Source code Management using GIT and GITHUB	08.02.2021 to 09.02.2021	Mr. M.V.Gopi, APSSDC.Trainer	Internshala Student Partner	172	PO1, PO5, PSO1
5.	Workshop on Game Development Using BuildBox	14.12.2020 to 19.12.2020	Mr.T.Ravi Kishore, Mr.P.Alluru Raju, APSSDC.Trainers	Women Tech Makers	175	PO1, PO2, PO3, PO5, PSO1, PSO2

Table B.4.6.1.e: Workshops organized in 2020-21

CAYm1 (2019.20)

S. No	Name of the Event	Date	Resource Person	Association with	No of participants	Relevance's PO'S & PSO'S
1.	Workshop on Data Science & Machine Learning using Python	29.05.2020 to 30.05.2020	Dr.P.Vijaya Bharati Mr. R. Ravi	CSEA	264	PO1, PO2, PO3, PO5, PSO1, PSO2
2.	Workshop on Google Android Developer Phase.I Batch.2	12.03.2020 to 14.03.2020	Mr.M.V.Gopi, Mr.Rama Prasad, Mr.Lokesh, Trainers . APSSDC	CSEA	96	PO1-PO3, PO5, PO9, PSO1, PSO2
3.	Workshop on Machine Learning, Computer Vision	9.03.2020 to 11.03.2020	Dr. Prajna, Professor, Andhra University	Internshala Student Partner	60	PO1, PO2, PO3, PO5, PSO1, PSO2

4.	Workshop on Machine Learning using Python	06.03.2020 to 07.03.2020	Mr.Rushikesh, Trainer, Aakar IIT Bombay	IEI	72	PO1, PO2, PO3, PO5, PSO1, PSO2
5.	Workshop on Progressive Web Apps	06.03.2020 to 07.03.2020	Mr. Sairam, Mr. Swamy, Mr. Surya, Trainers,APSSDC	APSSDC	125	PO1, PO2, PO3, PO5, PO9, PSO1, PSO2
6.	Workshop on Google Android Developer Phase.I Batch.1	05.03.2020 to 07.03.2020	Mr.M.V.Gopi, Mr. Rama Prasad, Mr. Lokesh, Trainers . APSSDC	CSEA	94	PO1, PO2, PO3, PO5, PO9, PSO1, PSO2
7.	Workshop on Intensive Workshop on Data Science	09.12.2019 to 11.12.2019	Mrs.PriyaDarshini Chettiar, Software developer, Women Techmakers	Women Tech Makers	120	PO1, PO2, PO3, PO4, PO5, PO12, PSO1, PSO2
8.	Workshop on Android Botics. Android Based Robotics	24.12.2019 to 26.12.2019	Mr.Deepak Mourya, Mr.Jayesh Sharma	IEI	186	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
9.	Workshop on Cyber Security and Ethical Hacking	09.09.2019 to 10.09.2019	Mr.Manish Yadhav Supraja Technologies	IEI	100	PO1, PO2, PO3, PO6, PSO1, PSO2
10.	Workshop on Web Development using Python	19.08.2019 to 26.08.2019	Mr. Prasanna Raju Mr. M.V.Gopi, Trainers ,APSSDC	IEI	198	PO1, PO2, PO3, PO5, PO9, PO10, PO12, PSO1, PSO2
11.	Workshop on MSTP (Multi Skill Training Program)	19.08.2019 to 15.02.2020	Mr. P.Alluru Raju, Trainer APSSDC	APSSDC	70	PO1, PO2, PO5, PO6, PO10, PO12, PSO1, PSO2

Table B.4.6.1.f: Workshops organized in 2019-20

CAYm2 (2018-19)

S. No	Name of the Event	Date	Resource Person	Association with	No of partici pants	Relevance's PO'S & PSO'S
1.	Workshop on Udacity Nano Degree Program for Android Developer	18.01.2019 to 22.01.2019	Mr. M. V. Gopi , Trainer, APSSDC	APSSDC	128	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
2.	Workshop on Game Development using Build Box	07.01.2019 to 10.01.2019	Mr. T. Sundharan, Ms. P.Sowndarya, Game developer, Brain-O-Vision	Internshala Student Partner	45	PO1, PO2, PO3, PO5, PO9, PSO1, PSO2
3.	Workshop on Gamification with AR & VR	26.12.2018 to 09.01.2019	Mr.T.Ravi Kishore, P.Alluru Raju, Game developer, Build box	Internshala Student Partner	124	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
4.	Workshop on AI and	06.12.2018	Mr.T.Suresh	Microsoft	50	PO1-PO3, PO5,

	Soft Computing	to 08.12.2018	Kumar,Wipro Dr. B.Subba Rao, MEIT	Student Partner		PSO1, PSO2
5.	Workshop on Google Android Developer Phase-II	21.09.2018 to 24.09.2018	Ms. Hema, Mr. G. Srikanth, Trainers, APSSDC	APSSDC	87	PO1, PO2, PO3, PO5, PO9, PSO1, PSO2
6.	Workshop on Google Android Developer Phase-I	22.08.2018 to 24.08.2018	Ms. Hema, Mr. G. Srikanth, Trainers, APSSDC	APSSDC	85	PO1, PO2, PO3, PO5, PO9, PSO1, PSO2
7.	Workshop on Android Developer Certification Phase-I & II	16.08.2018 to 11.08.2018	Ms.Hema, Mr.G.Srikanth, Trainers, APSSDC	APSSDC	129	PO1, PO2, PO3, PO4, PO5, PO9, PSO1, PSO2
8.	Workshop on Mean Stack Developer	16.08.2018 to 18.08.2018	AP Cloud Team (Mr. Satish Allam, Mr.V.Srinivas)	CSEA	60	PO1, PO2, PO3, PO5, PSO1, PSO2
9.	Workshop on Google Android Fundamentals	11.08.2018 to 16.08.2018	Ms.Hema, Mr.G.Srikanth, Trainers , APSSDC	APSSDC	60	PO1, PO2, PO3, PO4, PO5, PSO1, PSO2
10.	Workshop on SCALE	26.07.2018 to 28.07.2018	Ms. Shreya A, Mr. Sanket Dhadke Mr. Rafae shaik, Ms.Hashmitha Trainers, APSSDC	Internshala Student Partner	144	PO6, PO7, PO9, PO10, PO12, PSO1

Table B.4.6.1.g: Workshops organized in 2018-19

CAYm3 (2017-18)

S. No	Name of the Event	Date	Resource Person	Association with	No of participants	Relevance's PO'S & PSO'S
1.	Workshop on AWS Skill Guru	30.05.2018 to 31.05.2018	Mr.Sree Kiran Babu Mr. Syed Glouse, Trainers, APSSDC	APSSDC	61	PO1, PO2, PO5, PSO1, PSO2
2.	Workshop on IoT	08.05.2018 to 14.05.2018	Mr. M.V.Gopi, Mr.G.Srinivas, Trainers . APSSDC	APPSDC	166	PO1- PO5 PSO1, PSO2
3.	Workshop on Android Developer Certification (Phase-I & II)	08.05.2018 to 14.05.2018	Ms.Hema, Mr.G.Srikanth, Trainers, APSSDC	APPSDC	56	PO1- PO5, PO9, PSO1, PSO2
4.	Workshop on Robotics	10.02.2018 to 12.02.2018	Mr. Deepak Mourya, Mr. Jayesh Sharma	CSEA	50	PO1- PO5, PO9, PSO1, PSO2
5.	Workshop on Google Android Fundamentals	07.12.2017 to 9.12.2017	Ms.Hema, Mr.G.Srikanth, Trainers, APSSDC	APSSDC	139	PO1- PO5, PO9, PSO1, PSO2

6.	Workshop on Intensive Workshop on Data Science	01.12.2017 to 04.12.2017	Mrs.Priya Darshini Ch, Software developer, Women Tech Makers	Women Tech Makers	50	PO1- PO5, PO12 PSO1, PSO2
7.	Workshop on AP Cloud Mean Stack Developer	27.11.2017 to 29.11.2017	AP Cloud Team (Mr. Satish Allam, Mr. V.Srinivas, Ms. G.Usha Kiranmai Ms. P.Komali Pathri)	CSEA	107	PO1, PO2, PO3, PO5, PSO1, PSO2
8.	Workshop on Cyber Security	28.11.2017 to 29.11.2017	Mr.B.Venkata Rayulu, Project Executive,IBM Mr.Srikanth N Head Project Manager, Excel Global Solutions	-	233	PO1- PO3, PO5, PO6, PSO1, PSO2
9.	Workshop on IoT	14.09.2017 to 15.09.2017	Mr. V. Srinadhrao VIIT	CSEA	50	PO1, PO2, PO5, PO6, PSO1, PSO2
10.	Workshop on BOOTSTRAP	21.07.2017 to 24.07.2017	Mr. Ganesh, Trainer, Brain-O-Vision	Internshala	105	PO1, PO2, PO3, PO5, PSO1, PSO2

Table B.4.6.1.h: Workshops organized in 2017-18

CAY(2020-21)

S.No	Name of the Guest Lecture	Date	Resource Person	Association with	No of participants	Relevance's POs / PSOs
1.	Cloud Virtualization	17.05.2021	Dr.V.Viziasaradhi, Former Director of HPCL, Mumbai	CSEA	160	PO3,PO4, PO5, PSO1
2.	Influence of AI in 5G Network	12.04.2021	Dr.Archana Sharma, Head, PP and EMD, BARC, Mumbai	Women Tech makers	136	PO3, PO5, PSO1
3.	The Internet of Industrial Things (IIoT) & Information Systems	07.04.2021	Dr.Rishi Verma, Scientist.G, BARC, Atchutapuram, Visakhapatnam	-	159	PO3,PO4,PO5, PSO1, PSO2
4.	Challenges in Cyber Security	23.12.2020	Dr V.Bhujanga Rao, ISRO Chair Professor	Women TechMakers	167	PO3, PO4,PO5, PSO1
5.	AI enabled Software Defined Networking	17.11.2020	Mr.B.Venkata Rayulu, Project Executive, IBM		145	PO3, PO5, PSO1
6.	Opportunities in Digital Era	09.11.2020	Mr.Srikanth N Head Project Manager, Excel Global Solutions	Google Developer's Group	150	PO3,PO4, PSO1,PSO2

Table B.4.6.1.i: Guest Lectures organized in 2020-21

CAYm1 (2019-20)

S.No	Name of the Event	Date	Resource Person	Association with	No. of parti cipants	Relevance to POs & PSOs
1.	Data Science & Analysis	16.03.2020	Mr.Srikanth N Head Project Manager, Excel Global Solutions	-	130	PO1-PO5 PSO1
2.	IoT and its application	18.02.2020	T.Suresh Kumar, Lead Consultant, Wipro Limited,	-	155	PO1-PO5 PSO1,PSO2
3.	Art of Ethical Hacking	13.03.2020	Mr.B.Venkata Rayulu, Project Executive, IBM	-	140	PO1-PO5 PSO1
4.	Mobile App Development using Android	10.03.2020	Dr. V. ViziaSaradhi, Former Director,HPCL,	-	170	PO1-PO5 PSO1,PSO2
5.	Artificial Intelligence in Robotics	06.03.2020	Dr V.Bhujanga Rao, ISRO Chair Professor	-	160	PO1-PO5 PSO1,PSO2
6.	Cryptography	26.02.2020	Dr. C.D. Malleswar, Former Director.NSTL	-	170	PO1-PO4 PSO1
7.	Spatial Databases	11.01.2020	Dr.Rishi Verma Industrialist, PP & EMD,BARC.	-	179	PO1,P02,P03, PO4,PSO1
8.	Bridging the Gap between the Students and Academia	26.12.2019	T.Suresh Kumar, Lead Consultant, Wipro Limited,	-	170	PO6,PO7,P08, PO9,PO10,
9.	Block Chain Technology and its Applications	26.12.2019	T. Siva Rama Krishna, Associate Professor, JNTUK	-	176	PO1,P02, P03, PO5, PSO1
10.	Meet up on Deep learning and AI	28.08.2019	Dr.P.S.Chandra Murty Nagarjuna University	Women TechMakers	65	PO1-PO5 PSO1
11.	OpenCV 4.0	20.08.2019	Dr.Dhrubasish Sarkar, AMITY UNIVERSITY	Microsoft Student Partner	120	PO1-PO5 PSO2
12.	Environmental Sustainability	18.07.2019	Dr.D. Raja Kishore, Professor, Andhra University	-	152	PO6,P07,P08, PO9,PO10,
13.	Big Data	01.07.2019	Dr.R.B.V. Subrahmanyam, Assoc.Professor, NIT Warangal	Google Develop Group	65	PO1,P02,P03, PO4,PSO2

Table B.4.6.1.j: Guest Lectures organized in 2019-20

CAYm2 (2018-19)

S.NO	Name of the Event	Date	Resource Person	Association with	No of participants	Relevance's PO'S & PSO'S
1.	Career Opportunities for IT and ITEs Sector	30.04.2019	Dr. B.Subba Rao Director SAMEER		78	PO1,P02, PO3,PO4, PSO1
2.	Augmented Reality and Virtual Reality	29.04.2019	Mrs.P.Aruna Kumari Asst Professor, UCEV-JNTUK	-	170	PO1,PO2, PO3,PO4, PSO1
3.	Industry Employability skills Training	26.04.2019	Mr. T. Suresh, Team Leader, WIPRO	-	170	PO6,P08, PO9,PO10, PSO2
4.	Awareness program on Cyber Crime	08.03.2019	K. Prabhakar Babu, ACP, Zone2, Vishakhapatnam	-	123	PO6,PO7,PO8, PO9,PO11,PO12 PSO1,PSO2
5.	Concurrent Programming	20.02.2019	Prof.K.Nageswara Rao Director, Andhra University	IEI	95	PO3,PO5, PSO1,PSO2
6.	Importance of IoT in Marine Engineering	11.01.2019	Mr.S.K. Dubey, Joint Director, STPI	-	179	PO2,PO3, PO4,PO5, PSO1,PSO2
7.	Developing Engineering Applications	03.11.2018	Mr. S. Chandra Mouli, Project Manager, BOA	-	137	PO1,PO2, PO3,PO5, PSO1

Table B.4.6.1.k: Guest Lectures organized in 2018-19

CAYm3 (2017-18)

S.NO	Name of the Event	Date	Resource Person	Association with	No of participants	Relevance's PO'S & PSO'S
1.	Awareness Program on Cyber Crime	08.03.2018	Mr. Y. Kishore Kumar, CI, Duvvada, Visakhapatnam	-	167	PO2,PO3,P04, PO6,PO8,PSO1
2.	Developing Engineering Applications	04.01.2018	Mr. S. Chandra Mouli, Project Manager, BOA	-	181	PO1,PO2,PO3 PO5,PO6,PSO1
3.	Current trends in the IT sector	12.12.2017	Dr. G. Jaya Suma, Professor, Dept of IT,UCEV. JNTUK	-	59	PO1,PO2,PO3 PO5 PSO1,PSO2
4.	Women.health and Hygiene	12.12.2017	Mrs.Sudha Mavuri Associate Professor, GITAM	-	78	PO6,PO7,PO8, PO10
5.	Effective self management	12.12.2017	Dr.B.Ramesh Babu, DPM, Neuropsychiatric	-	75	PO6,PO8,PO9, PO10,PO11

Table B.4.6.1.l: Guest Lectures organized in 2017-18

CAY (2020-21)

S.NO	Name of the Event	Date From	Resource Person	Association with	No of participants	Relevance's to POs & PSOs
1.	Seminar on Latest Testing methods	20.07.2021	T.Suresh, WIPRO	-	92	PO9,PO10,PO11,PO12,PSO2
2.	Seminar on Deep Learning for Predictions in Emerging Currency Markets	16.07.2021	C.D. Malleswar, Former Director. NSTL	-	136	PO4, PSO1, PSO2
3.	Seminar on Data and Business Intelligence Introduction	22.06.2021	Dr. Bujanga Rao, NIAS	Internshala	171	PSO2
4.	Seminar onIntroduction of Embedded Web Technology	11.01.2021	B.SureshBabu, NIT . Warangal	CSEA	80	PO7, PO11,PO10, PSO1, PSO2
5.	Seminar on Python Libraries for Data science	15.12.2020	T.Mastan Rao, CMR College	-	101	PO10, PSO1,PSO2
6.	Seminar on Data Security and related issues	28.12.2020	Dr. Archana Sharma, BARC	-	59	PO5 PSO1, PSO2
7.	Seminar on Cyber security trends, issues, and challenges	11.12.2020	Dr. B.Subba Rao, Director . SAMEER	IEI	187	PO8 PSO1,PSO2

Table B.4.6.1.m: Seminars organized in 2020-21

CAYm1 (2019-20)

S.NO	Name of the Event	Date From	Resource Person	Association with	No of participants	Relevance's PO'S & PSO'S
1.	Seminar on Deep Learning And AI	16.03.2020	Dr. Ch. Jaya Suma, Professor, Dept. of IT, UCEV-JNTUK	Internshala	120	PO3, PO5, PSO1,PSO2
2.	Seminar on Recent Trends in Emerging Technologies	01.10.2019	Dr. Ch. Jaya Suma, Professoror, JNTUK	-	137	PO4 PSO1,PSO2
3.	Seminar on Cyber security	22.08.2019	Mr.S.ChandraMouli, , Senior Manager Bank of America	-	100	PO3,PO5 PSO1,PSO2
4.	Seminar on Environmental Seminar	18.07.2019	Mr. K. Sumanth , Assistant Professor, Andhra University	CSEA	80	PO3,PO5,PO10, PSO1,PSO2
5.	Seminar on Industry 4.0	29.06.2019	Mr. AnupAdhwa ,CEO, IITD . AIA Foundation, SAMRATH UDYOG	CSEA	60	PO3,PO5 PSO1,PSO2
6.	Seminar on Oxford Achiever Orientation	26.06.2019	Mrs.Y. Sandhya, Trainer, British Council of India	-	187	PO10 PSO1

Table B.4.6.1.n: Seminars organized in 2019-20

CAYm2 (2018-19)

S.NO	Name of the Event	Date	Resource Person	Association with	No of participants	Relevance's PO'S & PSO'S
1.	Seminar on Cyber Security	10.01.2019	Mr.S.ChandraMouli, , Senior Manager Bank of America	Internshala	70	PO3,PO5,PO10, PSO1,PSO2
2.	Seminar on Machine Learning with R	10.01.2019	Dr.A.Krishna Mohan, Professor, JNTUK	-	70	PO3,PO5,PO10, PSO1,PSO2
3.	Seminar on Women Empowerment	10.01.2019	Mrs. Lakshmi potluti, CEO, DCF Ventures	Women Tech makers	60	PO3,PO5,PO10, PSO1,PSO2
4.	Seminar on Environment sustainability	22.12.2018	Mr. K. Sumanth, Assistant Professor, AU	CSEA	134	PO6,PSO1
5.	Seminar on Cyber Security Fundamentals by CISCO	25.07.2018	Mr. NavinMehra, Regional Leader, CISCO in India	CSEA	60	PO3,PO5,PO10, PSO1,PSO2

Table B.4.6.1.o: Seminars organized in 2018-19

CAYm3 (2017-18)

S.No	Name of the Event	Date	Resource Person	Association with	No of participants	Relevance's POs & PSOs
1.	Seminar on every end has a New beginning	17.03.2018	Dr. R. RajeswaraRao , Associate. Prof, UCEV-JNTUK	IEI	70	PO3,PO5,PO10, PSO1,PSO2
2.	Seminar on Personality Development Programme	17.03.2018	Mr. Mallesh Annamaina, Corporate Trainer, Motional speaker,	Internshala	55	PO3,PO5,PO10, PSO1,PSO2
3.	Seminar on Effective Public Speaking	11.03.2018	Mrs. G. Madhavi , HR & Operations Manager, Friends Indeed Nethorlands Based Organization	Women Tech Makers	58	PO3,PO5,PO10, PSO1,PSO2
4.	Seminar on Motivational Seminar	03.07.2017	Mr. K. VenuGopal, Financial Manager, Licenced Financial Analyst, Charter Holder	-	60	PO3,PO5,PO10, PSO1,PSO2,
5.	Seminar on Environment Sustainability	17.06.2017	Mr. K. Sumanth, Assistant Professor, Andhra University	-	189	PO7, PSO1

Table B.4.6.1.p: Seminars organized in 2017-18

CAY(2020-21)

S.NO	Registered Number	Name of the Student	Name of the Industry	Duration
1.	17NM1A0575	K. Meghana	Knowledge Solutions India	6 Weeks
2.	18NM1A0569	K.Vagdevi	Mycaptain	1 Month

3.	18NM1A0588	M.Pravallika	Hamari Pahchan Ngo (Internshala)	1 Month
4.	17NM1A0517	B.Anusha	Grip At The Sparks Foundation (Internshala)	1 Month
5.	17NM1A0594	L.Sruthi	Skillenza	9 Months
6.	18NM1A0530	Prasanna Priya	Acuevers (Internshala)	1 Month
7.	17NM1A0517	Anusha Behara	The Sparks Foundation	1 Month
8.	17NM1A0501	A. Pravallika	Ava Soft	6 Months
9.	19NM1A05H1	G.V.a Maha Lakshmi	Internshala	1 Month
10.	18NM1A0561	K.Kusumanjali	Internshala	1 Month
11.	17NM1A05H0	V. Shaankari	Accenture	3 Months
12.	18NM1A0588	M.Pravallika	Internshala	1Month
13.	19NM1A0583	K.Prasanna Lakshmi	Internshala	6 Weeks
14.	18NM1A0518	B. Satya Sree	Internshala	6 Weeks
15.	18NM1A0507	A. Kavya	Internshala	6 Weeks
16.	17NM1A05A9	N. Poojitha	Tech Mahindra	9 Months
17.	17NM1A05A1	M. Sai Bhavana	Tech Mahindra	9 Months
18.	17NM1A05A0	M. Rithwikaa	Tech Mahindra	9 Months
19.	17NM1A05H3	V. Vijaya Lakshmi	Volteo	3 Months
20.	19NM1A05B3	N.Pooja Nagawali	Internshala	10 Weeks
21.	17NM1A0517	B.Anusha	L.Cube Innovative Solutions	10 Days
22.	17NM1A0511	Aranapalli Shivani	L.Cube Innovative Solutions	10 Days
23.	17NM1A05E0	Rongala Bharathi Jyothi	L.Cube Innovative Solutions	10 Days
24.	19NM1A0568	K. Renuka	Internshala	8 weeks
25.	19NM1A05A4	M. Sowmya	Internshala	8 weeks
26.	19NM1A05B1	N. Niha	Internshala	8 weeks
27.	19NM1A05H2	V. Venkata Sai Lavanya	Verzeo	2 Months
28.	19NM1A05B0	N.Jhansi Rani	Internshala	8 Weeks
29.	18NM1A05B0	P.Sowjanya	Apssdc	7 Weeks
30.	19NM1A0550	G.Divya	Internshala	6 Weeks
31.	19NM1A0568	K. Renuka	Internshala	6 Weeks
32.	19NM1A0590	M. Kalpana	Internshala	8 Weeks
33.	19NM1A0599	M. Jahnavi	Internshala	8 Weeks
34.	19NM1A0522	B.Sowjanya	Get Appointment	2 Weeks
35.	19NM1A0513	B. Pratheeka	Get Appointment	2 Weeks
36.	19NM1A0572	K. Leela Kumari	Internshala	8 Weeks
37.	19NM1A0570	K. Anusha Pavani	Internshala	6 Weeks
38.	19NM1A0550	G.Divya	Internshala	4 Weeks
39.	19NM1A0539	E.Soujanya	Internshala	6 Weeks
40.	18NM1A0599	M.Naga Sri Pravallika	Team Everest (Internshala)	1 Month
41.	19NM1A05B8	P. Prameela	Internshala	4 Weeks
42.	19NM5A0508	Vahazarunnisa Mohd	Knowledge Solutions India	1 Week
43.	18NM1A0596	M.Jyotsna Yalla Sri	Internshala	6 Weeks
44.	18NM1A0599	M.Naga Sri Pravallika	Internshala	6 Weeks
45.	19NM1A0599	M.Jahnavi	Internshala	4 Weeks
46.	19NM1A05B5	P Bhavya Sri	Internshala	8 weeks
47.	17NM1A0551	G.Ananda Bhavani	Prepbytes	6 Months
48.	18NM1A0588	M.Pravallika	Internshala	6 Weeks

Table B.4.6.1.q: Internships organized in 2020-21

CAYm1 (2019-20)

S.NO	Registered Number	Name of the Student	Name of the Industry	Duration
1.	17NM1A0553	G.Nikhila	Accenture	1 Month
2.	17NM1A0543	G.Nagamai	Yes Tech Solution	1 Month
3.	17NM1A0568	Kalaga Sahitya	Geeks God	2 Months
4.	18NM1A0505	Deva Divya	National Engineering Olympaid	1 Month
5.	18NM1A0517	B.Divya	Avishkar Tech Solutions	10 Weeks
6.	17NM1A0522	B.Sri Sai Manasa	Brain O Vision	1 Month
7.	17NM1A0534	D.Charanya	Brain O Vision	1 Month
8.	18NM1A0523	Ch.Nandini	Smart Bridge	1 Month
9.	19NM1A0501	A.Lakshmi	Smart Bridge	1 Month
10.	17NM1A0554	G.Sravani	Smart Bridge	1 Month
11.	19NM1A05B3	Nethala Pooja Nagavalli	Internshala	6 Weeks
12.	18NM1A05B1	P.Anauskca Srinivas	Apptronix	1 Week
13.	17NM1A05G0	S.Haritha	Apptronix	1 Week
14.	17NM1A05G5	T.Poojitha	Apptronix	1 Week
15.	17NM1A0597	Ratna Shivani	Smart Bridge	1 Month
16.	17NM1A0514	B.Ch. Naga Sai Sarada	Techern	1 Month
17.	17NM1A0559	J.Manasa	Verzeo	2 Months
18.	17NM1A0551	G.A.Bhavani	Smart Bridge	1 Month
19.	18NM1A0523	Ch.Nandini	Smart Bridge	1 Month
20.	19NM1A0582	K.Komali	Internshala	1 Month
21.	19NM1A0532	D.SVenkata Sree Varshini	Internshala	1 Month
22.	19NM1A0585	Laveti Poojitha	Internshala	1 Month
23.	19NM1A0563	Swanika Battula	Internshala	1 Month
24.	19NM1A05B3	Nethala Pooja Nagavalli	Internshala	6 Weeks
25.	16NM1A05E8	Gangupam Prashipta	Xane.Ai	6 Weeks
26.	19NM1A0593	S.Lakshmi Prasanna	Internshala	1 Month
27.	17NM1A05B5	Nukala Sruthi	Internshala	1 Month
28.	17NM1A0594	L.Sruthi	Spark Foundation	1 Month
29.	17NM1A0562	J.Kumari	Internshala	6 Weeks
30.	17NM1A05B6	Nupur Das	Kalakar	2 Months
31.	17NM1A05B3	Nannpaneni Sai Sandhya	Kalakar	2 Months
32.	17NM1A0594	L.Sruthi	Kalakar	2 Months
33.	17NM1A0568	Kalaga Sahitya	Kalakar	2 Months
34.	18NM1A0588	M.Pravallika	Internshala	6 Weeks
35.	17NM1A05B9	P.Vasanthi	Internshala	6 Weeks
36.	17NM1A05G3	T.Meghana	Internshala	6 Weeks
37.	18NM1A0551	P.Harshita	Kalakar	2 months
38.	17NM1A05B8	P.Sushma	Kalakar	2 Months
39.	17NM1A0567	Ms.K. Prathyusha	Kalakar	2 Months

40.	17NM1A05A3	Ms.G. Praharsha	Kalakar	2 Months
41.	18NM1A05G9	S.Nandini	Internshala	7 Weeks
42.	17NM1A0570	K.Supriya	Internshala	1 Month
43.	17NM1A05B6	Nupur Das	Techfest	3 Days
44.	17NM1A0568	Kalaga Sahitya	Tryst	6 WEEKS
45.	17NM1A05B3	N.Sai Sandhya	Internshala	2 Months
46.	17NM1A0596	Annapurna Maddi	Internshala	1 Month
47.	17NM1A05E3	P.Sai Rakshitha	Elite Techno Group	1 Week
48.	17NM1A05D4	P.Revathi	Appleton Innovations	1 Week
49.	17NM1A05C6	P.V.S.Likhitha	Appleton Innovations	1 Week
50.	17NM1A0568	K.Sahitya	Coding Ninjas	8 Months
51.	17NM1A05B3	N.Sai Sandhya	Shiksha Intern 2.0	1 Month
52.	16NM1A0504	A.S.Vaishnavi	Maq Software	3 Weeks
53.	17NM1A0594	L.Sruthi	Foxmula	6 Weeks
54.	17NM1A0569	Ms.Kalepu Sreeja	HMI Robo Coupler Engineering Services	6 Weeks
55.	17NM1A05G3	T.Meghana	Internshala	10 Weeks
56.	16NM1A05G9	P.Harshita	Codemania	2 Weeks
57.	16NM1A05D9	Ch.V.Pravallika	Codemania	2 Weeks
58.	16NM1A0585	P.Neelaveni	Ludifu	2 Months
59.	16NM1A0574	M.Samyuktha	Ludifu	2 Months
60.	16NM1A0569	M.Sindhu	Ludifu	2 Months
61.	17NM1A05C7	P.Sri Jyothi Meghana	Smart Bridge	2 Days
62.	17NM1A05E3	P.Sai Rakshitha	Smart Bridge	2 Days
63.	17NM1A05E5	S.Rupasri	Smart Bridge	2 Days
64.	17NM1A05E8	Ms.Sappa Sandhyarani	Engineers Hub	2 Weeks
65.	17NM1A0596	M.Annapurna	Internshala	1 Month
66.	17NM1A05E3	P.Sai Rakshitha	Smart Bridge	3 Days
67.	17NM1A05C7	P. Sri Jyothi Meghana	Smart Bridge	3 Days
68.	16NM1A05C9	Adari Vindya Sree	Tocmoc Solutions	1 Month
69.	17NM1A05H4	Mounika Vurukuti	Tocmoc Solutions	1 Month
70.	17NM5A0507	Majji Kasturi	Tocmoc Solutions	1 Month
71.	17NM1A05H5	Yelleti Yamini	Tocmoc Solutions	1 Month
72.	17NM1A05D2	Pulidindi Krishna Priya	Tocmoc Solutions	1 Month
73.	17NM1A05C1	Pappu Sri Sai Keerthi	Tocmoc Solutions	1 Month
74.	17NM1A05H1	V D Lakshmi Rajeswari	Tocmoc Solutions	1 Month
75.	17NM1A05D7	Ramadala Keerthi	Tocmoc Solutions	1 Month
76.	17NM1A0506	Bhavana Alluri	Tocmoc Solutions	1 Month
77.	16NM1A05G1	Kommoju Katyayani	Tocmoc Solutions	1 Month
78.	16NM1A05C7	Aratakatla Deepika	Tocmoc Solutions	1 Month
79.	16NM1A05G3	K.Divya Sri	Tocmoc Solutions	1 Month
80.	17NM1A0521	B.Utteja	Internshala	6 Weeks
81.	17NM1A0530	Ch.Alekhya	Verzeo	2 Months

82.	17NM1A0551	G.A.Bhavani	Internshala	6 Weeks
83.	16NM1A05E6	Galla Hyndavi	Tocmoc Solutions	1 Month

Table B.4.6.1.q: Internships organized in 2019-20

CAYm2 (2018-19)

S.NO	Registered Number	Name of the Student	Name of the Industry	Duration
1.	15NM1A05B9	Vudatta Suma	Atom Software Solutions	1 Month
2.	15NM1A05C5	Dady Lalatha	Atom Software Solutions	1 Month
3.	15NM1A05C6	D Sai K L Shivani	Atom Software Solutions	1 Month
4.	15NM1A05D4	G. Hema Anasari	Atom Software Solutions	1 Month
5.	15NM1A05D6	G. Mahathi	Atom Software Solutions	1 Month
6.	15NM1A05D0	K. Gnanamayi	Atom Software Solutions	1 Month
7.	15NM1A05E8	M. Vasanthi	Atom Software Solutions	1 Month
8.	15NM1A05G1	P. Mahathi	Atom Software Solutions	1 Month
9.	15NM1A05H4	U. Yamini	Atom Software Solutions	1 Month
10.	15NM1A0557	Kondra Nikitha	Visakhapatnam Steel Plant	10 Days
11.	15NM1A0566	Mallem Susmitha	Visakhapatnam Steel Plant	1 Month
12.	15NM1A0569	Mandarapu Pavani	Visakhapatnam Steel Plant	2 Weeks
13.	15NM1A0573	Nadimpalli Sravya	Visakhapatnam Steel Plant	2 Weeks
14.	15NM1A0576	N Lalitha Nagasai	Visakhapatnam Steel Plant	1 Month
15.	15NM1A0579	Paila Manoranjani	Visakhapatnam Steel Plant	2 Weeks
16.	15NM1A0591	P V S S Kameswari	Visakhapatnam Steel Plant	2 Weeks
17.	15NM1A0593	R V S R N Sri Vaishnavi	Visakhapatnam Steel Plant	2 Weeks
18.	15NM1A0598	Salapu Mohini Priyanka	Visakhapatnam Steel Plant	2 Weeks
19.	15NM1A0599	Seeramsetty Kavya	Visakhapatnam Steel Plant	1 Month
20.	15NM1A05B2	Telu Sai Renuka	Visakhapatnam Steel Plant	2 Weeks
21.	15NM1A05B3	Tentu Anusha	Visakhapatnam Steel Plant	1 Month
22.	15NM1A05F0	Malla Srivalli	Visakhapatnam Steel Plant	2 Weeks
23.	15NM1A05H3	Uppu Poojitha	Visakhapatnam Steel Plant	2 Weeks
24.	16NM1A0545	G.Devi	Internshala	6 Weeks
25.	16NM1A05F3	K. Lahari	Visakhapatnam Steel Plant	2 Weeks
26.	16NM1A05G0	Kodali Sri Harsha	Visakhapatnam Steel Plant	2 Weeks
27.	16NM1A05H1	R. Lochana Sai Mamba	Visakhapatnam Steel Plant	2 Weeks
28.	17NM1A0599	Md. Zenifer	Robocoupler Techno Solutions	6 Weeks
29.	17NM1A05G9	V.Swapnika	Bits Pilani	3 Weeks
30.	16NM1A05E0	Ch. Sai Rakshitha	Verzeo	1 Month
31.	16NM1A05E5	G.Nithisa	Verzeo	1 Month
32.	16NM1A0535	E.Deepika	Entreesphere	2 Months
33.	16NM1A0535	E.Deepika	Internshala	4 Weeks
34.	18NM1A0551	P.Harshita	The Sparks Foundation	2 Months
35.	17NM1A05D6	Vurukuti Keerthi	Supraja Technologies	2 Weeks
36.	17NM1A05E2	Rudraraju Yamini Varma	IBM- Smart Bridge	3 Weeks

37.	17NM1A05C0	Pamula Gayathri	Robocoupler Techno Solutions	6 Weeks
38.	17NM1A05C7	P Sri Jyothi Meghana	IBM- Smart Bridge	3 Weeks
39.	17NM1A05C2	Paricharla Lahari	Fluent Grid	4 Weeks
40.	17NM1A0579	Karaka Jyoshna	HMI Robo Coupler Engineering Services	6 Weeks
41.	17NM1A05E7	Sanapathi Sravani	HMI Robo Coupler Engineering Services	6 Weeks
42.	17NM1A0591	Kundrapu Divya	HMI Robo Coupler Engineering Services	6 Weeks
43.	17NM1A05G5	Poojitha Tokachichu	Glean Solutions	1 Month
44.	17NM1A05E5	S.Rupasri	IBM Smart Bridge	2 Weeks
45.	17NM1A05E3	P Sai Rakshitha	IBM Smart Bridge	3 Weeks
46.	17NM1A05E7	Sanapathi Sravani	Engineering Gaints	1 Month
47.	17NM1A05A3	Mojjada Uma Maheswari	HMI Robo Coupler Engineering Services	6 Weeks
48.	17NM1A05A3	Mojjada Uma Maheswari	HMI Robo Coupler Engineering Services	6 Weeks
49.	17NM1A05E8	S.Sandhya Rani	Internshala	2 Weeks
50.	16NM1A0510	K. Lavanya	Atom Software Solutions	3 Weeks
51.	16NM1A05B2	A Lakshmi	Internshala	5 Weeks
52.	16NM1A05F3	Karumajji Lahari	C2N IT Services Pvt. Ltd.	4 Weeks
53.	16NM1A05G0	Kodali Sri Harsha	C2N IT Services Pvt. Ltd.	4 Weeks
54.	17NM1A0574	Kammili Tanuja	HMI Robo Coupler Engineering Services	6 Weeks

Table B.4.6.1.r: Internships organized in 2018-19

CAYm3 (2017-18)

S.NO	Registered Number	Name of the Student	Name of the Industry	Duration
1.	14NM1A0563	Ch. Lohitha	Visakhapatnam Steel Plant	2 Weeks
2.	14NM1A0585	Pithani Rohini	Visakhapatnam Steel Plant	2 Weeks
3.	14NM1A0591	R. Anitha	Visakhapatnam Steel Plant	2 Weeks
4.	14NM1A0598	Theppala Radhika	Visakhapatnam Steel Plant	2 Weeks
5.	14NM1A05A0	Vadisila Aruna Kumari	Visakhapatnam Steel Plant	2 Weeks
6.	14NM1A05G5	Venigalla Tejaswini	Visakhapatnam Steel Plant	2 Weeks
7.	15NM1A0503	Andavarapu Divya	Visakhapatnam Steel Plant	2 Weeks
8.	15NM1A0505	Anjum Javeria	Visakhapatnam Steel Plant	1 Week
9.	15NM1A0509	Asi Kavya Reddy	Visakhapatnam Steel Plant	2 Weeks
10.	15NM1A0518	Chindada Lakshmi Sree	Visakhapatnam Steel Plant	1 Week
11.	15NM1A0522	Dasari Kamaleshwari	Visakhapatnam Steel Plant	2 Weeks
12.	15NM1A0538	Issai Bhargavi	Visakhapatnam Steel Plant	2 Weeks
13.	15NM1A0540	Jinaga Himabindu	Visakhapatnam Steel Plant	1 Week
14.	15NM1A0557	Kondra Nikitha	Visakhapatnam Steel Plant	2 Weeks

15.	15NM1A0561	Kukkadapu Pratyusha	Visakhapatnam Steel Plant	1 Week
16.	15NM1A0563	Lagudu Anuradha	Visakhapatnam Steel Plant	2 Weeks
17.	15NM1A0572	Munjeti Nikhila	Visakhapatnam Steel Plant	2 Weeks
18.	15NM1A0574	Nelluri Madhuri Sowjanya	Visakhapatnam Steel Plant	3 Weeks
19.	15NM1A0575	Nethala Sowmya Latha	Visakhapatnam Steel Plant	1 Week
20.	15NM1A0577	O Naga Durga Vara Manisha	Visakhapatnam Steel Plant	2 Weeks
21.	15NM1A0578	Pagadala Sai Rajeevi	Visakhapatnam Steel Plant	2 Weeks
22.	15NM1A0580	Pangi Hema Bharathi	Visakhapatnam Steel Plant	1 Week
23.	15NM1A0584	Pentakota Prathyusha	Visakhapatnam Steel Plant	1 Week
24.	15NM1A0590	Pragada Sujatha	Visakhapatnam Steel Plant	1 Week
25.	15NM1A0592	Puppala Niharika	Visakhapatnam Steel Plant	3 Weeks
26.	15NM1A0597	Sai Bhavana Bonthu	Visakhapatnam Steel Plant	1 Week
27.	15NM1A05A1	Shaik Ashia Parvine	Visakhapatnam Steel Plant	1 Week
28.	15NM1A05A5	Siriyala Surekha	Visakhapatnam Steel Plant	3 Weeks
29.	15NM1A05A8	Srimantula Sai Lavanya	Visakhapatnam Steel Plant	1 Week
30.	15NM1A05A9	Suvvari Vineetha	Visakhapatnam Steel Plant	3 Weeks
31.	15NM1A05B5	Tikka Pooja Naga Mounika	Visakhapatnam Steel Plant	2 Weeks
32.	15NM1A05C0	Vysyaraju Priyanka	Visakhapatnam Steel Plant	3 Weeks
33.	15NM1A05C7	Dantuluri Ramya Sree	Visakhapatnam Steel Plant	1 Week
34.	15NM1A05D5	Gondesi Gowthami	Visakhapatnam Steel Plant	1 Week
35.	15NM1A05E1	Kolagani Laxmi Venkata Lahari	Visakhapatnam Steel Plant	1 Week
36.	15NM1A05E4	Kusuma Priya Kuchu	Visakhapatnam Steel Plant	2 Weeks
37.	15NM1A05E6	Lingampalli Divyasri	Visakhapatnam Steel Plant	1 Week
38.	15NM1A05F5	P Deekshita	Visakhapatnam Steel Plant	2 Weeks
39.	15NM1A05H3	Uppu Poojitha	Visakhapatnam Steel Plant	1 Week
40.	16NM1A05E8	G.Prashipta	Supraja Technologies	3 Weeks
41.	15NM1A0570	M. Neelima	BHEL	2 Weeks
42.	15NM1A05F4	S. Keerthi	BHEL	2 Weeks
43.	15NM1A0591	T.V.S.S.Mahima	BHEL	3 Weeks
44.	15NM1A0569	M.Pavani	BHEL	3 Weeks
45.	15NM1A05B6	T.Vandhana	BHEL	3 Weeks
46.	15NM1A05C2	Anupriya Acharya	BHEL	3 Weeks
47.	15NM1A05D8	G.Haritha	BHEL	3 Weeks
48.	16NM1A05G0	K. Sri Harsha	Spyry	3 Weeks

Table B.4.6.1.s: Internships organized in 2017-18

4.6.2. Publication of technical magazines, newsletters, etc. (5)

The main objective of newsletter and annual magazine is to provide important news and updates as current as possible to make the stakeholders aware of the department significant information. Publishing a newsletter with the right tools and effective scheduling, can be a simple way to boost the entire communication plan by a few notches.

Newsletter Editorial Board for the Calendar year 2021

Editor-in-Chief	Dr. K. Vijaya Kumar, Head of the Department
Advisor	Dr. T. Radha Krishna Murthy, Professor of English
Sub-Editors	Mrs. Sk. Rahimunnisa, Asst. Professor Ms. Rita Roy, Asst. Professor
Board Members	Ms.Y.Vineela Sravya, Asst. Professor Ms.G.Sandhya, Asst. Professor Ms.G.Roja Devi(18NM1A0539) Ms.Chavi Agarwal(18NM1A0521) Ms.G.V.Avanija Mahalakshmi(19NM1A05H1) Ms.N.Mounika(19NM1A05A3)

Table B.4.6.2.a: Newsletter Editorial Board for the Calendar year 2021

Newsletter Editorial Board for the Calendar year 2020

Editor-in-Chief	Dr. K. Vijaya Kumar, Head of the Department
Advisor	Dr. T. Radha Krishna Murthy, Professor of English
Sub-Editors	Mrs. Sk. Rahamunnisa, Asst. Professor Ms. Rita Roy, Asst. Professor
Board Members	Dr. P. Vijaya Bharati, Assoc. Professor Mr. Raju Imandi, Asst. Professor Ms. G. Sai Chandana(17NM1A0556) Ms.G. Vathsalya(17NM1A0545) Ms.K. Reshma(18NM1A0558) Ms.Y. Poorinima(18NM1A05G5)

Table B.4.6.2.b: Newsletter Editorial Board for the Calendar year 2020

Newsletter Editorial Board for the Calendar year 2019

Editor-in-Chief	Dr. K. Vijaya Kumar, Head of the Department
Advisor	Dr. T. Radha Krishna Murthy, Professor of English
Sub-Editors	Mrs. Sk. Rahamunnisa, Asst. Professor Ms. Rita Roy, Asst. Professor

Board Members	Mrs. P. Vijaya Bharati, Assoc. Professor Mr. Raju Imandi, Asst. Professor Ms. K. Amrutha (16NM1A0557) Ms. G. Praharsha(16NM1A0539) Ms. P.S.S. Keerthi(17NM1A05C1) Ms.M. SaiBhavana(17NM1A05A1)

Table B.4.6.2.c: Newsletter Editorial Board for the Calendar year 2019

Newsletter Editorial Board for the Calendar year 2018

Editor-in-Chief	Dr. K. Vijaya Kumar, Head of the Department
Advisor	Dr. T. Radha Krishna Murthy, Professor of English
Sub-Editors	Mrs. D. Kamala Kumari, Asst. Professor Ms. Rita Roy, Asst. Professor
Board Members	Mrs. P.Vijaya Bharati, Assoc. Professor Mr. L. Bhupathi Rao, Asst. Professor Ms. K.Madhumitha(15NM1A0546) Ms.K.Bhavishya(15NM1A05D9) Ms. P.Harshitha(16NM1A0586) Ms.A.Anusha(16NM1A05C8)

Table B.4.6.2.d: Newsletter Editorial Board for the Calendar year 2018

Newsletter Editorial Board for the Calendar year 2017

Editor-in-Chief	Mr. S. Ram Prasad Reddy, Head of the Department
Advisor	Dr. T. Radha Krishna Murthy, Professor of English
Sub-Editors	Mrs. D. KamalKumari, Asst. Professor Mr. B. A. Ganesh, Asst. Professor
Board Members	Mrs. P. Vijaya Bharati, Assoc. Professor Mr. L. Bhupathi Rao, Asst. Professor Ms. P. Sheetal Singh(14NM1A05F5) Ms.V. Meghana(14NM1A05A6) Ms. K. Pratyusha(15NM1A0561) Ms. A. Sireesha(15NM1A0508)

Table B.4.6.2.e: Newsletter Editorial Board for the Calendar year 2017

Publication of Newsletters				
Sl. No	**Newsletter**	**Volume , Issue**	**Period**	**Publisher**
1.	VEGA	Volume 3, Issue 1	Jan 2017-March 2017	Dept of CSE, VIEW
2.	VEGA	Volume 3, Issue 2	April 2017 – June2017	Dept of CSE, VIEW
3.	VEGA	Volume 3, Issue 3	July 2017-Sep 2017	Dept of CSE, VIEW
4.	VEGA	Volume 3, Issue 4	Oct 2017-Dec 2017	Dept of CSE, VIEW
5.	VEGA	Volume 4, Issue-1	Jan 2018-March 2018	Dept of CSE, VIEW
6.	VEGA	Volume 4, Issue-2	April 2018-June 2018	Dept of CSE, VIEW
7.	VEGA	Volume 4, Issue-3	July 2018-Sep 2018	Dept of CSE, VIEW
8.	VEGA	Volume 4, Issue-4	Oct 2018-Dec 2018	Dept of CSE, VIEW
9.	VEGA	Volume 5, Issue-1	Jan2019-March 2019	Dept of CSE, VIEW
10.	VEGA	Volume 5, Issue-2	April 2019-June 2019	Dept of CSE, VIEW
11.	VEGA	Volume 5, Issue-3	July 2019-Sep 2019	Dept of CSE, VIEW
12.	VEGA	Volume 5, Issue-4	Oct 2019-Dec 2019	Dept of CSE, VIEW
13.	VEGA	Volume 6, Issue-1	Jan 2020-March 2020	Dept of CSE, VIEW
14.	VEGA	Volume 6, Issue-2	April 2020-June 2020	Dept of CSE, VIEW
15.	VEGA	Volume 6, Issue-3	July 2020-Sep 2020	Dept of CSE, VIEW
16.	VEGA	Volume 6, Issue-4	Oct 2020-Dec 2020	Dept of CSE, VIEW
17.	VEGA	Volume 7, Issue-1	Jan 2021-March 2021	Dept of CSE, VIEW
18.	VEGA	Volume 7, Issue-2	April2021-June2021	Dept of CSE, VIEW
19.	VEGA	Volume 7, Issue-3	July 2021-Sep 2021	Dept of CSE, VIEW

Table B.4.6.2.f: List of Publications of Newsletters

4.6.3. Participation in inter-institute events by students of the program of study (10)

Academic Year				
	2017-18	**2018-19**	**2019-20**	**2020-21**
Participation Within the state	30	25	29	18
Participation outside the state	5	12	13	3
Awards/Rewards	11	11	16	9

Figure 4.6.3.a: Bharat Book of World Records for Ms.G.Prashiptha

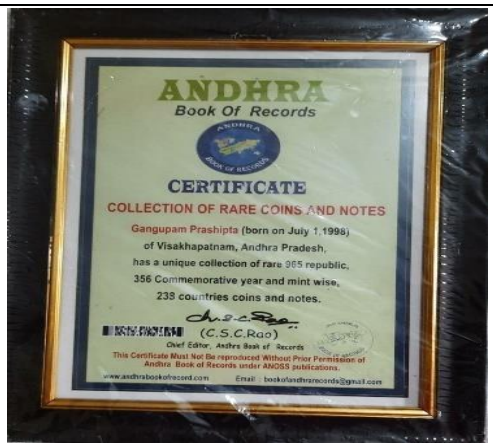


Figure 4.6.3.b: Andhra Book of Records for Ms.G.Prashiptha

Figure 4.6.3.c: KHO-KHO Team

Figure 4.6.3.d: Throw ball Team

The students of VIEW won first position in KHO-KHO tournament and third position in Throw ball tournament, Central Zone sports meet held at Aditya Engineering College, Suramapalem Kakinada. Four students participated in KHO-KHO tournament and three students participated in Throw ball tournament from Department of CSE.

Department Achievements:

The students of Computer Science and Engineering bagged an opportunity to participate and enhance their learning skills in the area of latest trends in technology. They excelled their performance in various platforms like Microsoft WISE, Mission R&D, CII summit at BSE Mumbai and completing internships with stipends in top MNCs.

The faculties motivate the students continuously to explore their skills in latest technologies by participating in various inter-institute events. The Management encourages the

faculties and students to organize and participate in inter-institute events by providing financial aid for registrations, travel, accommodation etc.

Sl. No.	Name of the Achievement	Academic years	Total No. of Students	
1.	Microsoft WISE Program (Women in Science and Engineering)	2019-20	02	05
		2018-19	01	
		2017-18	02	
2.	Mission R&D	2019-20	03	05
		2018-19	01	
		2017-18	01	
3.	CII Summit	2018-19	01	01

Table B.4.6.3.e: Student's achievements

Sl. No	Academic Year	Regd. No.	Name of the Student	Date(s) of event	Relevance to POs/PSOs
1.	2019-20	17NM1A0515	B. Harshini	27.09.2019 to 18.09.2020	PO4,PO9,PSO1,PSO2
2.	2019-20	17NM1A0557	G. Madhu Sri	27.09.2019 to 18.09.2020	PO4,PO9,PSO1,PSO2
3.	2018-119	16NM1A0512	B. Niharika	27.09.2018 to 18.09.2019	P04,PO5,P09,PSO1,PSO2
4.	2017-18	15NM1A0559	K. Madhavi	18.10.2017 to 24.08.2018	P04,PO5,P09,PSO1,PSO2
5.	2017-18	15NM1A0556	K. Sushmitha	18.10.2017 to 24.08.2018	P04,PO5,P09,PSO1,PSO2

Table B.4.6.3.f: List of students selected for Microsoft WISE

Sl. No	Academic Year	Regd. No.	Name of the Student	Date(s) of event	Relevance to POs/PSOs
1.	2019-20	17NM1A0509	A. Sri Rekha	27.09.2019 to 18.09.2020	PO4,PO9, PSO1,PSO2
2.	2019-20	17NM1A0530	Ch. Alekya	27.09.2019 to 18.09.2020	PO4,PO9,PSO1,PSO2
3.	2019-20	17NM1A0560	J. Kumari	27.09.2019 to 18.09.2020	PO4,PO9, PSO1,PSO2
4.	2018-19	16NM1A0512	B.Niharika	17.09.2018	PO4, PO9, PSO1, PSO2

				to 18.09.2019	
5.	2017-18	15NM1A0559	K. Madhavi	18.10.2017 to 24.08.2018	P04,PO5,P09, PSO1,PSO2

Table B.4.6.3.g: List of students selected for Mission R&D

International level CII Summit 2018-19						
Sl. No	**Regd. No.**	**Name of the Student**	**Date(s) of event**	**Event Name**	**Place**	**Awards/Rewards Relevance to POs/PSOs**
1.	15NM1A05B9	V. Suma	12.01.2019 & 13.01.2019	CII Summit	Bombay Stock Exchange Mumbai	P04,PO5,P09,PSO1,PSO2

Table B.4.6.3.h: Students attended International level CII Summit in 2018-19

Participation in intra state events by students in 2020-21						
Sl. No	**Regd. No.**	**Name of the Student**	**Date(s) of event**	**Event Name**	**Organized by**	**Relevance to POs/PSOs**
1.	18NM1A05D3	Sai Kavya Sree Matcha	Sep to Nov 2020	Big Data Computing	NPTEL	PO1,PO2,PO3, PSO1, PSO2
2.	18NM1A0597 18NM1A05C1 18NM1A05D6 18NM1A05E4 18NM1A05G0 19NM5A0508	Molli Hema Latha Priyanka Kumari Sanapathi Sireesha S Harika Damayanthi U.D.Santhoshi Kumari MdVahazarunnisa	Jan to Mar 2021	Database Management Systems	NPTEL	PO1, PO2,PO5,PO3, PSO1, PSO2
3.	19NM1A0580	Korupolu Sruthi	Sep to Dec 2020	Problem Solving through Programming In C	NPTEL	PO1, PO2,PO3, PSO1, PSO2
4.	18NM1A05E9	Sunkari Dhana Lakhsmi	Sep to Dec 2020	Programming In Java	NPTEL	PO1, PO2,PO3, PSO1, PSO2
5.	17NM1A0575	Kandregula Meghana	Sep to Dec 2020	Programming, Data Structures and Algorithms using Python	NPTEL	PO1, PO2,PO3, PSO1, PSO2
6.	19NM1A05D0	Amrutha P	Jan to Mar 2021	Programming, Data Structures and Algorithms using Python	NPTEL	PO1, PO2,PO3, PSO1, PSO2

7.	19NM1A0503 19NM1A0517 19NM1A0520 19NM1A0524 19NM1A0538 19NM1A0544 19NM1A0547 19NM1A0554 19NM1A0580 19NM1A05E0 19NM1A05E5 19NM1A05G5 20NM5A0517	Akkireddi Kusuma Battula Sailaja S Bhavya Sree Challa Bhumika Eadara Sai Deekshitha Geeri Madhuri Sai G Sai Durga Dharani Guntla Ashika Sreya Korupolu Sruthi Rajapudi Priyusha Sivala Neelima Sushumna Pravallika S Sai Varnika	Jan to Feb 2021	Python for Data Science	NPTEL	PO1, PO2,PO3, PSO1, PSO2
8.	19NM1A0593	M.L.P.Sree lekha	10.11.2020	Foundation Day quiz		PO1, PO2,PO3, PSO1, PSO2
9.	18NM1A05D5	S.Sai Sri Lakshmi Mounika	29.11.2020	Exploring the Story of Data Science	Sand Box Tech.	PO1, PO2,PO3, PSO1, PSO2
10.	18NM1A0587 18NM1A05A8	M.Rupadevi K.Nikitha Indhu	20.05.2021	My Capitan Android App Development	The Climber	PO1, PO2,PO3, PSO1, PSO2
11.	18NM1A0575	K.Moulikasandhya Sri	19.02.2021	My captian Artificial Intelligence	The Climber	PO1, PO2,PO3, PSO1, PSO2
12.	18NM1A0569	K.Vagdevi	20.05.2021	My captian Web Development	The Climber	PO1, PO2,PO3, PSO1, PSO2
13.	18NM1A05F7	T.Tanuja	05.07.2021	React Js	Brain-O-Vision	PO1, PO2,PO3, PSO1, PSO2
14.	18NM1A0596 18NM1A05D5	M. Jyostna Yalla Sri S.Sai Sri Lakshmi M	12.07.2021 to 16.07.2021	Web Development	Brain-O-Vision	PO1, PO2,PO3, PSO1, PSO2
15.	19NM1A0529 19NM1A0537	Ch.Venkata Kavya D.Lakshmi Sahithi		Web Development	Online Teaching	PO1, PO2,PO3, PSO1, PSO2
16.	19NM1A0514 19NM1A0553 19NM1A0555 19NM1A0559	B.Ramya G.Bhavana G.Krishnaveni J.Vijaya Sri		Web Development Using Html	Online Teaching	PO1,PO2,PO5,PO3, PSO1,PSO2
17.	18NM1A05E7 18NM1A05E9	S.Kavya T.Lalitha	30.04.2021 to 01.05.2021	Artificial Intellgence	Pantech E.Bytes	PO1, PO2,PO3, PSO1, PSO2
18.	19NM5A0508	Md.Vahazarunnisa	14.05.2021 to 15.05.2021	Augument Reality	Pantech E.Bytes	PO1, PO2,PO3, PSO1, PSO2

Table B.4.6.3.i: Participation in intra state events by students in 2020-21

Participation in inter state events by students in 2020-21						
Sl. No	**Regd. No.**	**Name of the Student**	**Date(s) of event**	**Event Name**	**Organized by**	**Relevance to POs/PSOs**
1.	19NM1A0524	Ch.Bhumika	07.05.2021	Digital Literacy	BELL Institute of Hotel Management	PO1, PO2,PO3, PSO1, PSO2
2.	18NM1A05D5	S.Sai Sri Lakshmi Mounika	05.11.2020	Witness Block chain In Action In Action	Sand Box Tech.	PO1, PO2,PO3, PSO1, PSO2
3.	19NM1A0524	Ch.Bhumika	15.06.2021	Python Programming	JIS College Of Engineering	PO1, PO2,PO3, PSO1, PSO2

Table B.4.6.3.j: Participation in Inter state events by students in 2020-21

List of awards received during the Academic Year 2020-21							
Sl. No	**Regd. No.**	**Name of the Student**	**Date(s)**	**Event Name**	**Institution Name**	**Awards**	**Relevance to POs/PSOs**
1.	19NM1A0555	G.Krishnaveni	24.09.2020	Mynep Ambassador	MyNep	Merit	PO1, PO2,PO3, PO5,PSO1, PSO2
2.	18NM1A0569	Vagdevi Kolachina	10.07.2021	Programming Essentials in Python	CISCO	Merit	PO1, PO2,PO3, PO5,PSO1, PSO2
3.	19NM1A05B3	N Pooja Nagavalli	09.07.2021	Programming Essentials in Python	CISCO	Merit	PO1, PO2,PO3, PO5,PSO1, PSO2
4.	19NM1A05E5 19NM1A05G7 19NM1A05H2 18NM1A0530 19NM1A0515	N Sivala T S Lavanya Pushpa Sai Lavanya V D Prasanna Priya Y V N S S Gayathri	14.07.2021	Programming Essentials in Python	CISCO	Merit	PO1, PO2,PO3, PO5,PSO1, PSO2
5.	19NM1A0539	E.Soujanya	11.05.2020 to 22.09.2020	Programming in C Language	Aqura Infotech	Merit	PO1, PO2,PO3, PO5,PSO1, PSO2
6.	19NM1A05D7	P.Venkata Vaidehi	17.02.2021 to 02.04.2021	Verzeo Campus Ambassador Programmer	Verzeo	Merit	PO1, PO2,PO3, PO5,PSO1, PSO2
7.	16NM1A05E8	G. Prashipta	19.06.2020	Coin Collection	Bharat Book of World Records		PO9
8.	16NM1A05E8	G. Prashipta	19.07.2020	Coin Collection	Andhra Book of Records		PO9
9.	16NM1A05E8	G. Prashipta	02.08.2020	Coin Collection	Asia book of records		PO9

Table B.4.6.3.k: List of awards received during the Academic Year 2020-21

Participation in Intra state events by students in 2019-20						
Sl. No	**Regd. No.**	**Name of the Student**	**Date(s) of event**	**Event Name**	**Institution Name**	**Relevance to POs/PSOs**
1.	17NM1A0596	M. Annapurna	31.07.2019 to 31.12.2019	Internship on Android Development	Spark foundation	PO1,PO2,PO5,PO11, PSO1,PSO2
2.	17NM1A05G0	Surada Haritha	Jan to Apr 2020	Machine Learning	NPTEL	PO1, PO2,PO3, PSO1, PSO2
3.	19NM1A0555	Guntrothu Krishnaveni	24.09.2020	Mynep	MyNep	PO1, PO2,PO3, PSO1, PSO2
4.	18NM1A0561	Kandregula Kusumanjali	31.07.2020	Online Puzzle Soloving	GVP CoE.	PO1, PO2,PO3, PSO1, PSO2
5.	18NM1A0573 18NM1A05C1 19NM1A0502 19NM1A0524 19NM1A0565 19NM1A0582 19NM1A05A9 19NM1A05E5 19NM1A05H1	K.L.Priyanka Kumari A.Samatha Ch.Bhumika Chaitrika Kalidindi K.Komali N.Venkata Preethi Neelima Sivala G.V.Avanija Mahalakshmi	04.10.2020	Applications of Python Programming in NLP and Data Science	JNTU Vijayanagaram	PO1, PO2,PO3, PSO1, PSO2
6.	17NM1A0555	G.Jhanavi	23.05.2020	Data Structures and Algorithms	Coding Blocks	PO1, PO2,PO3, PSO1, PSO2
7.	18NM1A0561 18NM1A05D3	K. Kusumajili M.Sai Kavya Sri	08.08.2020 to 09.08.2020	Python For Machine Learning	Code warriors	PO1, PO2,PO3, PSO1, PSO2
8.	17NM1A05E4	Sanaboyina Sri Varshini	02.06.2020	Deep Learning	Raghu Institute of Technology	PO1, PO2,PO3, PSO1, PSO2
9.	17NM1A0524	Bonam Roshini	20.07.2020	Excel Basics	St. Jospeh Degree	PO1, PO2,PO3, PSO1, PSO2
10.	17NM1A0569	K. Sreeja	15.06.2019 to 30.08.2019	Internship on Artificial Intelligence	HMI Robo Coupler and Engineering services	PO1,PO2,PO3,PO5, PO11,PSO1,PSO2
11.	17NM1A0579	K. Jyoshna	20.05.2019 to 20.06.2019	Internship on App Development	HMI Robo coupler engineering services	PO1,PO2,PO3,PO5, PO11,PSO1,PSO2
12.	17NM1A0599 17NM1A05A3	M. Deborah Zenifer M Uma Maheswari	15.05.2019 to 15.06.2019	Internship on Data Science Using Python	HMI Engg Services Robo.Coupler Solutions	PO1,PO2,PO3,PO5, PO11,PSO1,PSO2
13.	17NM1A0509 17NM1A0512 17NM1A0529 17NM1A0530 17NM1A0535	Sri Rekha Anne AyithiDeepika Ch. Sai Likhita Ch. Alekhya DadiSowmya	22.12.2019 to 23.12.2019	Workshop on Mobile Application development	Andhra University	PO1,PO2, PO3,PO5, PSO1,PSO2

	17NM1A0537 17NM1A0540 17NM1A0543 17NM1A0549 17NM1A0553 17NM1A0555 17NM1A05C0 17NM1A05C2 17NM1A05C7 17NM1A05C8 17NM1A05C9 17NM1A05D0 17NM1A05D1 17NM1A05D4 17NM1A05E3 17NM1A05E4 17NM1A05E5 17NM1A05G0 17NM1A05G8 17NM1A05H3 17NM1A05H6 18NM1A0590 18NM1A0595	D.Vineetha Sri D. Joshitha G Nagamani G. Manasa GompaNikhila G Jhanavi Pamula Gayathri P. Lahari P. Sri J Meghana PillaMounika P Teja Sai Sree P Bhavya P Jahnavi PusapatiRevathi Sai Rakshitha P S Sri Varshini SanamRupa Sri SuradaHaritha V NavyaSree V Vijaya Lakshmi Y D N S.Bhanusri M. Hema Sai Pushpa MediBhargavi				
14.	17NM1A0512 17NM1A0529 17NM1A0535 17NM1A0543 17NM1A0553 17NM1A05C2 17NM1A05C7 17NM1A05C8 17NM1A05C9 17NM1A05E3 17NM1A05E4 17NM1A05E5 17NM1A05G0 17NM1A05G8 17NM1A05H3 17NM1A05H6	AyithiDeepika Ch.SaiLikhita DadiSowmya G Nagamani GompaNikhila P. Lahari P. Sri JMeghana PillaMounika P Teja Sai Sree Sai Rakshitha P S Sri Varshini SanamRupa Sri SuradaHaritha V NavyaSree V Vijaya Lakshmi Y D N S.Bhanusri	20.12.2019 to 21.12.2019	Workshop on Web development	Andhra University	PO1,PO2, PO3,PO5, PSO1,PSO2
15.	17NM1A0535 17NM1A0543	DadiSowmya G Nagamani	28.09.2019 to 29.09.2019	Cyber Security and Ethical Hacking.	GITAM	PO1, PO2, PO3, PO5, PSO1,PSO2
16.	17NM1A05E8	S Sandhya rani	10.06.2019 to 10.07.2019	Internship.Mobile Application Development React Native	Engineers Hub	PO5, PO11,PSO1,PSO2
17.	17NM1A0581	Kola Lavanya	17.05.2019 to 06.06.2019	Internship Web Application Development	Atom Software Solutions	PO1, PO2, PO3,PO5,PO11, PSO1, PSO2

18.	17NM1A05C6 17NM1A05D4	P V Satya Likhitha PusapatiRevathi	15.11.2019 to 22.11.2019	Internship on Internet Of Things	Appleton Innovations	PO1, PO2, PO3, PO5,PO11, PSO1, PSO2
19.	17NM1A05C2	P. Lahari	15.05.2019 to 12.06.2019	Internship on Power Utility. New Service Connection Module	FLUENTGRID Ltd	PO1,PO2,PO3, PO5,PO11, PSO1,PSO2
20.	17NM1A0501	A.V.K. Pravallika	23.12.19	Workshop on Flutter Interact	Miracle Software Solutions	PO3,PO5,PO10, PSO1,PSO2
21.	17NM1A0591	K. Divya	15.05.2019 to 15.06.2019	Internship on Android Development	Robot coupler and HMI	PO1,PO2,PO3, PO5,PO11, PSO1, PSO2
22.	16NM1A05A0	R. Sai Priya	01.05.2019 to 12.06.2019	Web Development	Internshala	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2
23.	17NM1A0546	G. Tejaswini	30.07.19	JAVA	Solo Learn Certification	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2
24.	17NM1A0502 17NM1A0503	A. S.Santhoshi A. Lakshmi	23.12.19	Seminar on Flutter Interact	Miracle software solutions	PO3,PO5,PO10,PSO1,PSO2
25.	17NM1A05C1	K. D. Sai Keerthi	10.01.2020	Athletics 100M	Participation	VIIT, Visakhapatnam
26.	17NM1A0501	A.V.K .Pravallika	12.11.2019	Badminton	Participation	VIIT, Visakhapatnam
27.	17NM1A0509	Sri Rekha Anne	06.01.2020	Badminton	Participation	VIIT, Visakhapatnam
28.	17NM1A0534	DCharanya	06.01.2020	Throw Ball	Participation	VIIT, Visakhapatnam
29.	18NM1A0579	K D Singh	10.01.2020	Athletics 100M	Participation	VIIT, Visakhapatnam

Table B.4.6.3.l: Participation in Intra state events by students in 2019-20

Participation in inter state events by students in 2019-20

Sl. No	Regd. No.	Name of the Student	Date(s) of event	Event Name	Institution Name	Relevance to POs/PSOs
1.	18NM1A0579 18NM1A0580 18NM1A0582	K.Dimpul Singh K. Dharani Sai K. Manasa	03.01.2020	Introduction of Computer Vision and CNNS	IIT, Madras	PO1,PO2, PO3, PO5, PSO1,PSO2
2.	17NM1A05B6	Nupur Das	07.07.2019 to 07.12.2019	Internship on Data Science Using Python	IIT Bombay	PO1,PO2,PO5,PO11, PSO1,PSO2
3.	17NM1A0521 17NM1A0555	D.Sowmya G.Jhanavi	11.08.2020 to 12.08.2020	Mobile Aplication Development	Square Sb Software Solutions	PO1, PO2,PO3, PSO1, PSO2
4.	18NM1A05D5	S.S.S.L. Monika	07.09.2019 to 08.09.2019	Workshop on Data Science	IIT Hyderabad	PO1,PO2, PO3,PO5, PSO1,PSO2

5.	18NM1A0589 18NM1A0590 17NM1A0514	M.S.K. Janani M.H.S. Pushpa B.Ch.N.S.Sarada	20.07.2019 to 21.07.2019	Workshop on Internet of Things	IIT Hyderabad	PO1,PO2, PO3,PO5, PSO1,PSO2
6.	17NM1A05B5	N. Sruthii	04.01.2020 to 04.03.2020	Internship on E. Cell Lucknow	IIM Lucknow	PO1,PO2,PO5,PO11, PSO1,PSO2
7.	17NM1A05D7 17NM1A05H1	R. Keerthi V.D.L. Rajeswari	25.05.2019 to 15.06.2019	Internship on Cyber Security and Ethical Hacking	Toc moc solutions	PO1,PO2,PO3,PO5,PO11, PSO1,PSO2
8.	17NM1A05H4	V. Mounica	08.05.2019 to 02.06.2019	Internship on Cyber Security and Ethical Hacking	Toc moc solutions	PO1,PO2,PO3,PO5,PO11, PSO1,PSO2
9.	17NM1A0594	Lanka Sruthi	20.12.2019 to Till date	Internship on Machine Learning	FOXMULA	PO1,PO2,PO3,PO5,PO11, PSO1,PSO2
10.	17NM1A0555	G. Jhanavi	01.07.2019 to 02.09.2019	Programming in Java	NPTEL IIT Kharagpur	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2
11.	17NM1A05C1	P. Sai Keerthi	15.06.2019 to 21.06.2019	Cyber security and ethical hacking	TOCMOC Solutions	PO1,PO2, PO3,PO5, PSO1,PSO2
12.	17NM1A0530	Ch. Alekhya	01.06.2019 to 31.06.2019	Cyber Security	Verzeo Bangalore	PO1,PO2,PO3, PO5,PO11, PSO1,PSO2
13.	17NM1A0545 17NM1A0546 17NM1A0550 17NM1A0551 17NM1A0553 17NM1A0554 17NM1A0555 17NM1A0562	G. Vathsalya G. Tejaswini G. Rani G. A. Bhavani G. Nikhila G. Sravani G. Jhanavi Joba Kumari	01.07.2019 to 01.09.2019	DBMS	NPTEL IIT Kharagpur	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2

Table B.4.6.3.m: Participation in Inter state events by students in 2019-20

List of awards received during the Academic Year 2019-20

Sl. No	Regd. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards	Relevance to POs/PSOs
1.	18NM1A05B8	P. Sahithi	03.01.2020	Introduction of Computer Vision	IIT, Madras	Merit certificate	PO4,PO5,PO9, PSO1,PSO2
2.	18NM1A0576	K.Hema Latha	07.09.2019 to 08.09.2019	Workshop on Data Science	IIT Hyderabad	Merit certificate	PO4,PO5,PO9, PSO1,PSO2
3.	17NM1A05C8	P. Mounika	20.12.2019	Workshop on	Andhra	Merit	PO4,PO5,PO9,

			to 21.12.2019	Web development.	University	certificate	PSO1,PSO2
4.	17NM1A0568	K. Sahitya	23.12.2019	Hack AI on Health	Medi valley, World Incubation Hub	4thPrize	PO4,PO5,PO9, PSO1,PSO2
5.	17NM1A0568	K. Sahitya	05.01.2020 to 06.01.2020	Technical Content Writer	Girls Script Foundation	Merit	PO1, PO2, PO3, PO5, PSO1, PSO2
6.	16NM1A05E8	G. Prashipta	Jun.19	Cyber security Internship	Tocmoc Solutions, Hyderabad	Certificate of Appreciation	PO4,PO5,PO9, PSO1,PSO2
7.	17NM1A0596	M.Annapurna	29.07.2019	Google IT	VIIT, VIEW, Visakhapatnam	1st Prize	PO4,PO5,PO9, PSO1,PSO2
8.	17NM1A05C8	P. Mounika	29.07.2019	Google IT	VIIT, VIEW, Visakhapatnam	2nd Prize	PO4,PO5,PO9, PSO1,PSO2
9.	17NM1A0589 17NM1A0564 17NM1A05A1 17NM1A0574	K. Hema Sai Harsitha M.S.Bhavana K. Thanuja	21.09.2019 to 23.09.2019	Idea Presentation	VIIT, VIEW, Visakhapatnam	1st Prize	PO4,PO5,PO9, PSO1,PSO2
10.	18NM1A0558 18NM1A0521 18NM1A0551	K. Reshma Ch Agarwal Harshitha	21.09.2019 to 23.09.2019	Idea Presentation	VIIT, VIEW, Visakhapatnam	2nd Prize	PO4,PO5,PO9, PSO1,PSO2
11.	18NM1A0551	G. Harshitha	09.02.2020	Throwball	VIIT, VIEW, Visakhapatnam	Runner	PO4,PO5,PO9, PSO1,PSO2
12.	17NM1A05G7	V.Kusumanjali	06.01.2020	Online Art Competition	Vizag Hub	Merit	PO1, PO2, PO3, PO5, PSO1, PSO2
13.	18NM1A0576	K.Hema Latha	07.04.2020	Jobs And Career in Cyber Security	IIIT Allahabad	Merit	PO1, PO2,PO3, PO5,PSO1, PSO2
14.	17NM1A0517	B.Anusha	12.02.2020	Ninja Hire 2.0 Senior	Coding Ninjas	Merit	PO1-PO3, PO5, PSO1, PSO2
15.	17NM1A05H1	V.D Lakshmi Rajeswari	12.02.2020	Ninja Hire 2.0 Senior	Coding Ninjas	Merit	PO1-PO3, PO5, PSO1, PSO2
16.	19NM5A0508	Md. Vahazarunnisa	21.05.2020	Online Mathematics Quiz	Santhiram Engineering College	Merit	PO1-PO3, PO5, PSO1, PSO2

Table B.4.6.3.n: List of awards received during the Academic Year 2019-20

Participation in Intra state events by students in 2018-19						
S. No	**Regd. No.**	**Name of the Student**	**Date(s) of event**	**Event Name**	**Institution Name**	**Relevance to POs/PSOs**
1.	17NM1A0532	ChoppaNandin	07.02.2019 to 08.02.2019	Ethical Hacking and Cyber Security	ANITS	PO1,PO2,PO4, PO5,PO8,PO12,PSO1,PSO2
2.	17NM1A05E7	S Sravani	10.05.2019	Internship on	Engineering	PO1,PO2,PO3, PO5,PO11,

			to 10.06.2019	Python Programming	Gaints	PSO1,PSO2
3.	17NM1A05E2	R.Y. Varma	13.05.2019 to 07.06.2019	Machine learning using python	Internship in Smart Bridge	PO1,PO2, PO3,PO5, PSO1,PSO2
4.	17NM1A0509 17NM1A0531	A. SriRekha Ch. Madhulika	17.09.2018 to 18.09.2018	Cyber Security and Malware Analysis by Indian Servers.	CITAM	PO1,PO2, PO3,PO5, PSO1,PSO2
5.	16NM1A05C8 16NM1A05E5 16NM1A05E8 16NM1A05F2 16NM1A05G0 16NM1A05G5	A. Anusha G. Nithisha G. Prashipta J. Deekshitha K. Sri Harsha M. Nikitha	25.02.2019 to 26.02.2019 05.03.2018 to 06.03.2018	Data Science Workshop	JNTUK VZM	PO1,PO2, PO3,PO5, PSO1,PSO2
6.	16NM1A05C7 16NM1A05C9 16NM1A05F7 17NM5A0507	A. D. R. Devi A.V. Sree K. A. Reddy M. Kasturi	16.12.2018	Digi Idols	Andhra University	PO1,PO2, PO3,PO5, PSO1,PSO2
7.	16NM1A05H3	R. Sathvika	20.12.2018 to 21.12.2018	Web Application Development	Andhra University	PO1,PO2, PO3,PO5, PSO1,PSO2
8.	16NM1A05F9 16NM1A05G9 16NM1A05H2 17NM1A0503 17NM1A0515 17NM1A0532 17NM1A0551	Ch. Kirthi P. Harshika S. Divya A. Lakshmi B. Harshini Ch. Nandini G. A. Bhavani	07.02.2019 to 08.02.2019	Cyber Security and Ethical Hacking	ANITS	PO1,PO2, PO3,PO5, PSO1,PSO2
9.	17NM1A0521	B. Utteja	01.06.2019 to 13.07.2019	Data Science	Internshala	PO1,PO2,PO3, PO5,PO11,PSO1,PSO2
10.	16NM1A0595	P.G. Varshini	Aug 2018	ANDROID	UDEMY	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2
11.	16NM1A0597 16NM1A0598	P. Ankitha P. Anusha	28.12.2018 to 29.12.2018	APP Development in Java	WISTM	PO1,PO2, PO3,PO5, PSO1,PSO2
12.	17NM1A05C2	P. Lahari	17.09.2018 to 18.09.2018	Cyber Security & Malware Analysis	CITAM	PO1,PO2, PO3,PO5, PSO1,PSO2
13.	16NM1A0586 16NM1A0597 16NM1A05A5 16NM1A05C1 17NM1A0501 17NM1A0502 17NM1A0503 17NM1A0504 17NM1A0510 17NM1A0534	P. Harshitha P. Ankitha S. Kavitha V.Keerthi A. Pravallika A. S.Santhoshi A. Lakshmi A. Manasa A. S. Geetha D. Charanya	06.12.2018 to 08.12.2018	AI in Soft Computing	VIIT	PO1,PO2, PO3,PO5, PSO1,PSO2

	17NM1A0535 17NM1A0545 17NM1A0554 17NM1A0562	D. Sowmya G. Vathsalya G. Sravani R. Niharika				
14.	16NM1A05F1 16NM1A05G9 16NM1A05H2 16NM1A0505 17NM1A0513 17NM1A0522 17NM1A0529 17NM1A0534 17NM1A0559 17NM1A05C7 17NM1A05D2 17NM1A05D4 17NM1A05D8 17NM1A05E1 17NM1A05E3 17NM1A05E4 17NM1A05E7 17NM1A05E8 17NM1A05G0 17NM1A05G5 17NM1A05H3 17NM1A05H6 18NM5A0513 18NM5A0519	G. Yasaswini P. Harshika S. Divya A. S. Sri B. Divya B. S. SManasa Ch. S. Likhita D. Charanya JManasa P. S. Meghana P.K. Priya P. Revathi R. Anusha R. Tanuja P. S. Rakshitha S. Sri Varshini S. Sravani S. Sandhyarani S. Haritha T. Poojitha V.V. Lakshmi Y. Bhanusri N.K. Veni T.R. Sravani	14.09.2018 to 15.09.2018	4G/5G LTE	VIIT	PO1,PO2, PO3,PO5, PSO1,PSO2
15.	16NM1A0503 16NM1A0510 16NM1A0525 16NM1A0538 16NM1A0542 16NM1A0543 16NM1A0545 16NM1A0562 16NM1A0558 16NM1A0553 16NM1A0543 16NM1A0563 16NM1A0564 16NM1A0535	A. Soundarya A. Lavanya CH. Deekshita G. SanthiSree G. Priyanka G. Mounika G. Devi K.SL.Prasanna K. Santhoshi K. S Praneetha G. Mounika K. Bhavana KSS Sowjanya E. Deepika	14.09.2018	Burst the bug	VIIT	PO4,PO5,PO9,PSO1,PSO2
16.	16NM1A0510 16NM1A0542 16NM1A0545 16NM1A0562 16NM1A0535	A. Lavanya G. Priyanka G. Devi K.SL.Prasanna E. Deepika	15.09.2018	Code Wreck 2.0	VIIT	PO4,PO5,PO9,PSO1,PSO2
17.	16NM1A0525	CH. Deekshita	14.09.2018	Technical Quiz	VIIT	PO4,PO5,PO9,PSO1,PSO2
18.	16NM1A0535	E. Deepika	15.09.2018	Live model	VIIT	PO4,PO5,PO9,PSO1,PSO2
19.	16NM1A0535	E. Deepika	14.09.2018	Paper	VIIT	PO4,PO5,PO9,PSO1,PSO2

				presentation		
20.	16NM1A0544	G.N.S. Lalitya	14.09.2018	Debugging	VIIT	PO4,PO5,PO9,PSO1,PSO2
21.	17NM1A05D2	P. K. Priya	14.09.2018 to 15.09.2018	Scrap and Crap (VISTA.2K18)	VIIT	PO9,PSO1
22.	15NM1A05D0 15NM1A0563 17NM1A05D0	E. Pravallika L. Anuradha P. Bhavya	18.02.2019	Throw Ball	National Youth Festival VIIT, (Yuvtarang)	PO9,PSO1
23.	15NM1A05D4 15NM1A0509 15NM1A0522	S. Tulasi K. Kavaya Kamalaeswari	18.02.2019	Kho.Kho		PO9,PSO1
24.	16NM1A0545	G. Devi	18.02.2019	Tenni.Koit		PO9,PSO1
25.	16NM1A0543	G. Mounika	18.02.2019	Chess		PO9,PSO1

Table B.4.6.3.o: Participation in Intra state events by students in 2018-19

Participation in inter state events by students in 2018-19						
S. No	**Regd. No.**	**Name of the Student**	**Date(s) of event**	**Event Name**	**Institution Name**	**Relevance to POs/PSOs**
1.	17NM1A0509 17NM1A0512 17NM1A0514 17NM1A0519 17NM1A0529 17NM1A0550	Sri Rekha A. Deepika B. Charishma B. Sirisha Ch.S. Likhita G. Rani	02.03.2019 to 03.03.2019	Workshop on IoT	IIT Hyderabad.	PO1,PO2, PO3,PO5, PSO1,PSO2
2.	16NM1A0535	E. Deepika	10.03.2019 to 10.05.2019	Internship on Technical Inter Mobile App Development	Entree sphere, Hyderabad	PO1,PO2,PO3, PO5,PO11,PSO1,PSO2
3.	17NM1A0512 17NM1A0509	A. Deepika A. Sri Rekha	02.03.2019 to 03.03.2019	Workshop on Internet of Things	IIT Hyderabad	PO1,PO2, PO3,PO5, PSO1,PSO2
4.	17NM1A05C7 17NM1A05E3	P. .S.J. Meghana Sai Rakshitha P.	13.05.2019 to 31.05.2019	Internship on Artificial Intelligence with Python &IBM Watson	Smart Bridge in Collaboration with IBM	PO1,PO2,PO3,PO5, PO11,PSO1,PSO2
5.	16NM1A0564 16NM1A0566 16NM1A0568 16NM1A0569 16NM1A0570 16NM1A0571 16NM1A0574	K. Sowjanya L. Anusha M. Amulya M. Sindhu S. Manasa MVS Bhavani M. Samyuktha	24.07.2018	Certification on Cyber Security	CISCO Networking Academy, Hyderabad	PO1,PO2,PO3,PO4, PO5,PO9,PSO1,PSO2

	16NM1A0577 16NM1A0578 16NM1A0581 16NM1A0583 16NM1A0584 16NM1A0586 16NM1A0587 16NM1A0588 16NM1A0590 16NM1A0593 16NM1A0594 16NM1A0595 16NM1A0596 16NM1A0597 16NM1A0599 16NM1A05A7 16NM1A05A9 16NM1A05B4 16NM1A05B5 16NM1A05B8 16NM1A05C0 16NM1A05C2 16NM1A05C4 16NM1A05C7 16NM1A05C9 16NM1A05E3 16NM1A05E7 16NM1A05E8 16NM1A05E9 17NM1A0544 17NM1A0546 17NM1A0552 17NM1A0553 16NM1A0564	M. Sailaja M. P. Jyothsna N. Sriranjini P. Anusha P. Jyothi Priya P. Harshitha P. Yamini P. Vasudha P. Lavanya P. Praveena P. Manju P. GVarshini P. Sowmya P. Ankitha R. Anuradha Shabnam S. Sravya T. Jaya T. Sarika V. lakshmi V. Pratyusha Y.P. Lakshmi Y. M. Sravya A. Deepika A.V. Sree D. J. Reddy G. Mounika G. Prashipta G. Kusuma G. Tejaswini G. S. lakshmi G. Sirisha K. Nikhila S. Sowjanya				
6.	16NM1A05C9 16NM1A05E6 16NM1A05F5 16NM1A05C7 16NM1A05G1 16NM1A05G3 17NM51A0507	A. D. R. Devi A. VindyaSree G. Hyndavi A Deepika K. Katyayini K. DivyaSree M. Kasturi	20.05.2019 to 20.06.2019	Internship on Cyber Security and Ethical Hacking	Tocmoc Solutions	PO1,PO2,PO3, PO5,PO11,PSO1,PSO2
7.	16NM1A0586 16NM1A0535 16NM1A0512 16NM1A05H3 16NM1A0504	P. Harshitha E. Deepika B. Niharika R. Sathvika A. S. Vyshnavi	26.08.2018	PIXEL RUN APPATHON	NASSACOMM 10000, Symbiosis Technologies	PO4,PO5,PO9, PSO1,PSO2
8.	16NM1A0576 16NM1A0589 16NM1A0591 16NM1A0595	M. Pravalika P. Vaibhavi P. Manasa P. GVarshini	January to April 2019	Programming in Java	NPTEL IIT Kharagpur	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2

9.	16NM1A05C0	V. Pratyusha	January to April 2019	Discrete Mathematics	NPTEL IIT	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2
10.	16NM1A0589 16NM1A05C2 16NM1A05C8 16NM1A05H3	P. V. Vaibhavi Y.P. Lakshmi A. Anusha R. Sathvika	19.01.19	Developing Serverless Applications	Symbiosis Technologies	PO1,PO2, PO3,PO5, PSO1,PSO2
11.	16NM1A05E8	G. Prashipta	Aug.2018	Champions Book of World Records,	Coin collection, Hyderabad	PO9,PSO1
12.	16NM1A05E8	G. Prashipta	Oct.2018	Shining Star award given by Sanghamithra Cultural& Social Service Organisation,	Coin collection, Delhi	PO9,PSO1

Table B.4.6.3.p: Participation in Inter state events by students in 2018-19

List of awards received during the Academic Year 2018.19							
Sl. No	**Regd. No.**	**Name of the Student**	**Date(s)**	**Event Name**	**Institution Name**	**Awards/Rewards**	**Relevance to POs/ PSOs**
1.	17NM1A0512	B Charishma	02.03.2019 to 03.03.2019	Workshop on IoT	IIT Hyderabad	Merit Certificate	PO4,PO5,PO9, PSO1,PSO2
2.	16NM1A05E6	G.Hyndavi	20.05.2019 to 20.06.2019	Internship On Cyber Security and Ethical Hacking	Tocmoc Solutions	Certificate of Appreciation	PO1,PO2,PO3, PO5,PO11, PSO1, PSO2
3.	17NM1A0509	A Sri Rekha	17.09.2018 to 18.09.2018	Cyber Security and Malware Analysis	JNTU VZM	Merit Certificate	PO4,PO5,PO9, PSO1,PSO2
4.	16NM1A0586 16NM1A0535 16NM1A0512 16NM1A05H3 16NM1A0504	HarshithaP Deepika E B Niharika Sathvika R A Vyshnavi	26.08.2018	Pixel Run Appathon	NASSACOM 10000, Symbiosis Technologies	2nd Prize	PO4,PO5,PO9, PSO1,PSO2
5.	16NM1A0522	B. Bhanusree	26.09.2018 to 27.09.2018	HACKTHON 2019	INNOVA Soluations	2nd Prize	PO4,PO5,PO9, PSO1,PSO2
6.	16NM1A0530	D.Vandana	06.12.2018 to 08.12.2018	Hackarena	VIIT	1st Prize	PO4,PO5,PO9, PSO1,PSO2
7.	16NM1A0593 16NM1A0594 16NM1A0588	P. Praveena P. Manju P. Vasudha	14.09.2018 to 15.09.2018	Poster Presentation	VIIT	2nd Prize	PO4,PO5,PO9, PSO1,PSO2
8.	17NM1A0589 17NM1A0564 17NM1A05A1	K Hema Sri J.Harshitha M. Bhavana	14.09.2018 to 15.09.2018	Poster Presentation	VIIT	1st Prize	PO4,PO5,PO9, PSO1,PSO2

9.	16NM1A0535 16NM1A0504 16NM1A0530 16NM1A0512 16NM1A05H3 16NM1A0586	E. Deepika A. Vaishnavi D. V. Sri B. Niharika G. Satwika P. Harsitha	14.09.2018 to 15.09.2018	Live Models. Parna App	VIIT	3rd Prize	PO4,PO5,PO9, PSO1,PSO2
10.	16NM1A0537	G.K.Sowmya	11.08.2018 to 16.08.2018	Workshop on Android	VIEW	Merit Certificate	PO3,PO5,PO10, PSO1,PSO2
11.	18NM5A0517	S. Nirmala	15.02.2019	Tennikoit	VIIT, VIEW	2nd Prize	PO4,PO5,PO9, PSO1,PSO2

Table B.4.6.3.q: List List of awards received during the Academic Year 2018-19

Participation in intra state events by students in 2017-18						
S.No	**Regd. No.**	**Name of the Student**	**Date(s) of event**	**Event Name**	**Institution Name**	**Relevance to POs/PSOs**
1.	16NM1A0501 16NM1A0526 16NM1A0557 16NM1A0564 16NM1A0567 16NM1A0576 16NM1A0579 16NM1A0592 16NM1A0593 16NM1A0595 16NM1A05A3 16NM1A05B3 16NM1A05C5 16NM1A05C6	A. Unnisa Ch. Alekya K. Amrutha K. Sowjanya L. Vineetha M. Pravalika N. Bhagya P. Pooja P. Praveena P. GunaVarshini S. Snigtha P. Triveni Y. Haritha Y. Vasantha	17.02.2018 to 18.02.2018	Artificial Intelligence	JNTU Kakinada	PO1,PO2,PO3, PO5,PSO1,PSO2
2.	16NM1A0501 16NM1A0504 16NM1A0517 16NM1A0545 16NM1A0562 16NM1A0525 16NM1A0557 16NM1A0550 16NM1A0559 16NM1A0563 16NM1A0535	A. Unnisa A.S Vaishnavi B.Y. Shireesha G. Devi K.S L.Prasanna CH. Deekshita K. Amrutha J. Poornima K. SaiSadhana K. Bhavana E. Deepika	14.09.2017 to 15.09.2017	Devils Hand	VIIT, Visakhapatnam	PO4,PO5,PO9, PSO1,PSO2
3.	16NM1A0564 16NM1A0578 16NM1A0579 16NM1A0581 16NM1A0587 16NM1A0595 16NM1A0597	K. S S Sowjanya M. P.Jyothsna N. Bhagya N. Sriranjini P. Yamini P. GunaVarshini P. Ankitha	14.09.2017 to 15.09.2017	Internet of Things	VIIT, Visakhapatnam	PO1-PO2,PO5, PSO1,PSO2

	16NM1A0598 16NM1A05A5 16NM1A05B0 16NM1A05B5 16NM1A05B6 16NM1A05B9 16NM1A05C1 16NM1A05C5 16NM1A05D3 16NM1A0580	P. Anusha S. Kavitha S. Likitha T. Sarika V. S. Deepika V. Joshna V. Keerthi Y. Haritha V. Bhavya Sri B. Maheswari				
4.	16NM1A0582 16NM1A0583	N. Mary Vincent P. Anusha	14.09.2017 to 15.09.2017	APP Development in Java	VIIT, Visakhapatnam	PO1-PO2,PO5, PSO1,PSO2
5.	16NM1A0582	N. Mary Vincent	06.12.2018 to 08.12.2018	AI in Soft Computing	VIIT, Visakhapatnam	PO1-PO2,PO5, PSO1,PSO2
6.	16NM1A05A3	S. Snigtha	02.07.2017	RC Aircraft Workshop	VIIT, Visakhapatnam	PO1-PO2,PO5, PSO1,PSO2
7.	16NM1A05F2 16NM1A05G0 16NM1A05G5	J. Deekshitha K. Sri Harsha M. Nikitha	05.03.2018 to 06.03.2018	Cyber Security and Ethical Hacking	JNTU VZM	PO1-PO2,PO5, PSO1,PSO2
8.	16NM1A05F6	K. KavyaSree	28.01.2018	Android	Coding Sastra	PO1-PO2,PO5, PSO1,PSO2
9.	16NM1A05H7 17NM5A0507	M. Akanksha M. Kasturi	14.9.2017 to 15.9.2017	Smart Apthon	VIIT, Visakhapatnam	PO1-PO2,PO5, PSO1,PSO2
10.	16NM1A05H8 16NM1A05H9	V. H Chowdary V. S. Priyanka	12.06.2018	Digital Marketing Workshop	Andhra University	PO1-PO2,PO5, PSO1,PSO2
11.	17NM1A05C2	P. Lahari	24.02.2018 to 26.01.2018	2018-CII Partnership Summit	APIIC	PO1-PO2,PO5, PSO1,PSO2
12.	16NM1A0522	B. Bhanusree	14.09.2017 to 15.09.2017	Paper Presentation	VIIT, Visakhapatnam	PO1-PO2,PO5, PSO1,PSO2
13.	18NM5A0507	K. Kiranmai	01.05.2017 to 28.05.2017	Internship on C#.NET	Sims E.Tech	PO1,PO2,PO3,PO4, PO5,PO12, PSO1,PSO2
14.	18NM5A0508	K. Pavani	29.05.2017 to 29.07.2017	Internship on Web designing	Silicon info systems	PO1,PO2,PO5,PO9,PO12, PSO1,PSO2
15.	16NM1A05C2	Y. P Lakshmi	10.05.2018 to 30.05.2018	Certification on IoT	COURSERA	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2
16.	17NM1A0563	J. Poornima	02.01.2018 to 04.01.2018	Workshop on Blockchain	GMRIT, Rajam	PO1-PO2,PO5, PSO1,PSO2
17.	16NM1A05C3 16NM1A05E8	Y. Sriya G. Prashipta	30.05.2018	Internet of Things	COURSERA	PO1,PO2,PO3,PO4, PO5,PO9,

	16NM1A05A9 16NM1A05A5 16NM1A05A0	S. Sravya S. Kavitha R. Sai Priya				PSO1,PSO2
18.	15NM1A05D4 15NM1A0509 15NM1A0522 15NM1A05B5	S.Tulasi K.Kavaya D.Kamalaeswari T.Anusha	02.03.2018 to 04.03.2018	Kho-Kho	Aditya Engineering College,	PO9,PSO1
19.	15NM1A05D0 15NM1A0563 17NM1A05D0	E.Pravallika L.Anuradha P.Bhavya	02.03.2018 to 04.03.2018	Throw Ball	Aditya Engineering College	PO9,PSO1
20.	15NM1A05D0 15NM1A0563 17NM1A05D0	E.Pravallika L.Anuradha P.Bhavya	07.01.2018 to 08.01.2018	Throw Ball	Yuvtarang 2018, Vignan Group	PO9,PSO1
21.	17NM1A0514	B.Ch. Sarada	15.02.2018 to 17.02.2018	Running Badminton	VIIT, Visakhapatnam	PO9,PSO1
22.	17NM1A05H3	V.V.Lakshmi	06.01.2018 to 07.01.2018	Badminton	VIIT, Visakhapatnam	PO9,PSO1
23.	17NM1A0550	G. Rani	01.03.2018	Athletics Running (400M)	VIIT, Visakhapatnam	PO9,PSO1
24.	17NM1A0529	Ch. S. Likhita	15.02.2018 to 17.02.2018	Running Badminton	VIIT, Visakhapatnam	PO9,PSO1
25.	16NM1A0526 16NM1A0535 16NM1A0560 16NM1A0562 16NM1A0563	Ch.Alekya E.Deepika K.Chaturya K.S.L.Prasanna K.Bhavana	14.09.2017 to 15.09.2017	Best from Waste	VISTA Vignan Group	PO9,PSO1
26.	17NM1A05E3	C.SaiRakshitha	01.09.2017	Mini Millitia	VIIT, Visakhapatnam	PO9,PSO1
27.	16NM1A05E8	G.Prashipta	01.09.2017	Mini Millitia	VIIT, Visakhapatnam	PO9,PSO1
28.	16NM1A05G1	K.Katyayini	01.09.2017	Mini Millitia	VIIT, Visakhapatnam	PO9,PSO1
29.	16NM1A05E5	G.Nithisha	01.09.2017	Treasure Hunt	VIIT, Visakhapatnam	PO9,PSO1
30.	16NM1A0519	B. SuryaTeja	21.07.2017 to 23.07.2017	Workshop on Boot Strap	VIEW	PO1,PO2, PO3,PO5, PSO1,PSO2

Table B.4.6.3.r: Participation in Intra state events by students in 2017-18

Participation in Inter state events by students in 2017-18						
S.No	**Regd. No.**	**Name of the Student**	**Date(s) of event**	**Event Name**	**Institution Name**	**Relevance to POs/PSOs**
1.	16NM1A05D1	B. Shivani	03.07.2017	C Programming	Port Blair	PO1,PO2,PO3,PO5, PSO1,PSO2

2.	16NM1A05A9 16NM1A05C2 16NM1A05E8	S. Sravya Y. Prasanna G. Prashipta	JAN-APR 2018	Problem solving through C	NPTEL IIT Kharagpur	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2
3.	16NM1A05C0	V.Pratyusha	JAN-APR 2018	Problem solving through C	NPTEL,IIT Kharagpur	PO1,PO2, PO3,PO4, PO5,PO9, PSO1, PSO2
4.	17NM1A05G9	S. Vasireddy	01.06.2018 to 21.06.2018	Mobile Application Development	Bits Pilani Hyderabad campus	PO1,PO2,PO3,PO5, PSO1,PSO2
5.	16NM1A0586	P. Harshitha	February to March 2018	Programming using Python	NPTEL IIT Madras	PO1,PO2,PO3,PO4, PO5,PO9, PSO1,PSO2

Table B.4.6.3.s: Participation in Interstate events by students in 2017-18

List of awards received during the Academic Year 2017-18

Sl. No	Regd. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards	Relevance to POs/PSOs
1.	16NM1A05H3	R. Sathvika	23.5.2018 to 30.5.2018	Machine Learning	Bits Pilani, Hyderabad	Merit Certificate	PO1,PO2,PO3,PO 5,PSO1,PSO2
2.	16NM1A0524	Ch. S.Bharathi	17.02.2018 to 18.02.2018	Artificial Intelligence	JNTU Kakinada	Merit Certificate	PO1,PO2,PO3,PO 5,PSO1,PSO2
3.	15NM1A05F0 15NM1A05G3 15NM1A05G9	M. Srivalli G. Vysali D. Sirisha	17.02.2018	Innovative ideas	JNTUK	1st Prize	PO1,PO2, PO3, PO10, PSO1, PSO2
4.	15NM1A05C8 15NM1A05F4	D. Geethika. M. Keerthi	17.02.2018	Innovative ideas	JNTUK	2nd Prize	PO1,PO2, PO3,PO10, PSO1,PSO2
5.	15NM1A05A6 15NM1A05A7	S Shusmasri T Sri Puja	14.09.2017 to 15.09.2017	Smart Ideas. acknowledgem ent of email	VIIT	2nd Prize	PO1,PO2, PO3,PO10, PSO1,PSO2
6.	15NM1A0550	D. S. M. Charishma	14.09.2017 to 15.09.2017	Live Model- A practical implementatio n of wireless sensor network based on smart phone safetysystem	VIIT	1st Prize	PO1,PO2, PO3,PO5, PO10, PSO1,PSO2
7.	15NM1A0567 15NM1A05B2 15NM1A05A6 15NM1A0565	M. Kavitha P. Sai Renuka S. Shushma S M Navya	14.09.2017 to 15.09.2017	Live Model- A IR remote controlled Home Automation using Aurdino	VIIT	2nd Prize	PO1,PO2, PO3,PO5,PO10, PSO1,PSO2
8.	16NM1A0569	M. Sindhu	07.01.2017 to 08.01.2017	Tug of War	VIIT	1st prize	PO1,PO2,PO3, PSO1,PSO2

9.	16NM1A0569	M. Sindhu	09.07.2017	VISTA 2K17	VIIT	Academic Excellence Award	PO1,PO2, PSO1,PSO2
10.	15NM1A0514 15NM1A0539	B. Mounika J. Sai Sirisha	12.03.2018 to 14.03.2018	Electrothon 2K18	KLU	Zonal level 1st prize	P04,PO5,P09, PSO1,PSO2
11.	16NM1A0569	Sindhu Mallidi	15.07.2017	VISTA 2K18	VIIT	Academic Excellence Award	PO1, PO2, PSO1,PSO2

Table B.4.6.3.t: List of awards received during the Academic Year 2017-18

CRITERION 5	Faculty Information and Contributions	200

5.1	Student-Faculty Ratio	20M
5.2	Faculty Cadre Proportion	25M
5.3	Faculty Qualification	25M
5.4	Faculty Retention	25M
5.5	Innovations by the Faculty in Teaching and Learning	20M
5.6	Faculty as participants in Faculty development/training activities/STTPs	15M
5.7	Research and Development	30M
5.8	Faculty Performance Appraisal and Development System (FPADS)	30M
5.9	Visiting/Adjunct/Emeritus Faculty etc.	10M

5. FACULTY INFORMATION AND CONTRIBUTIONS (200)

Faculty Information CAY (2020-21)

S.No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc.)	Initial Date of Joining	Association Type	At present working with the Institution (Yes/No)	In case of NO, Date of Leaving	IS HOD?
1.	Dr.T.V. Madhusudhan Rao	AEBPT7129L	Ph.D.	16/11/2015	CSE	1	NA	NA	Professor	10/06/2017	10/06/2017	Regular	No	01/09/2021	No
2.	Dr. K. Vijaya Kumar	CRGPK0379D	Ph.D.	27/09/2017	CSE	4	NA	NA	Professor	01/08/2020	20/05/2013	Regular	Yes	NA	Yes
3.	Dr. G. Neelima	AWCPG4041M	Ph.D.	11/12/2019	CSE	1	NA	NA	Associate Professor	13/12/2019	02/11/2018	Regular	No	10/09/2021	No
4.	Dr. P. Vijaya Bharati	BMMPP4953J	Ph.D.	08/02/2020	CSE	5	NA	NA	Associate Professor	10/02/2020	14/09/2009	Regular	Yes	NA	No
5.	Mrs. M. Mamatha Laxmi	AFNPL8164L	M. Tech	30/11/2010	CSE	2	NA	NA	Assistant Professor	NA	21/08/2014	Regular	Yes	NA	No
6.	Mr. Mohan Mahanty	CAZPM6225J	M. Tech	31/12/2015	CSE	0	NA	NA	Assistant Professor	NA	10/06/2017	Regular	No	25/06/2021	No
7.	Mr. D. Chandra Mouli	AWUPD8520C	M. Tech	28/09/2012	CSE	0	NA	NA	Assistant Professor	NA	12/06/2017	Regular	No	25/06/2021	No
8.	Ms. Y. Vineela Sravya	AMQPY6545G	M. Tech	30/04/2015	SE	4	NA	NA	Assistant Professor	NA	11/04/2016	Regular	Yes	NA	No
9.	Mrs. R. Pravallika	AWEPR8621G	M. Tech	29/01/2016	CSE	2	NA	NA	Assistant Professor	NA	31/05/2016	Regular	Yes	NA	No
10.	Mrs. G. Sandhya	BPXPG6654R	M. Tech	30/12/2016	CST	4	NA	NA	Assistant Professor	NA	20/03/2017	Regular	Yes	NA	No
11.	Mrs. G. Pavani latha	BPTPG6346A	M. Tech	30/12/2016	CST	2	NA	NA	Assistant Professor	NA	03/04/2017	Regular	Yes	NA	No
12.	Mrs. V. Sree Lahari	AYVPV6668C	M. Tech	28/02/2017	CSE	2	NA	NA	Assistant Professor	NA	28/06/2017	Regular	Yes	NA	No
13.	Mrs. N. Sowjanya Kumari	AYSPN6003A	M. Tech	30/12/2014	CSE	5	NA	NA	Assistant Professor	NA	25/05/2018	Regular	Yes	NA	No
14.	Mr. D. Rajendra Dev	AQJPD7869B	M. Tech (Ph.D.)	30/04/2014	SE	4	NA	NA	Assistant Professor	NA	06/06/2018	Regular	Yes	NA	No
15.	Ms. Rita Roy	BOGPR7762R	M. Tech	30/04/2014	CST	4	NA	NA	Assistant	NA	06/06/2018	Regular	Yes	NA	No

			(Ph.D.)						Professor						
16.	Mr. R. Ravi	BFDPR6147A	M. Tech	30/01/2014	CST	5	NA	NA	Assistant Professor	NA	30/06/2018	Regular	Yes	NA	No
17.	Mrs.J.Himabindhu	AUBPJ3399L	M. Tech	30/02/2015	CSE	4	NA	NA	Assistant Professor	NA	12/06/2019	Regular	Yes	NA	No
18.	Mrs. Sheik Rahamuinissa	BYIPS7561M	M. Tech	30/11/2016	CSE	2	NA	NA	Assistant Professor	NA	15/06/2019	Regular	Yes	NA	No
19.	Mrs.B.Haritha Laxmi	CPZPB3835C	M. Tech	30/01/2017	CSE	2	NA	NA	Assistant Professor	NA	20/06/2019	Regular	Yes	NA	No
20.	Mr. .A. Maheswara Rao	BRTPA2757D	M. Tech	29/12/2017	CSE	3	NA	NA	Assistant Professor	NA	21/06/2019	Regular	Yes	NA	No
21.	Mr.V.Sita Ram Prasad	DACPP4000G	M. Tech	20/02/2014	CSE	4	NA	NA	Assistant Professor	NA	22/02/2020	Regular	Yes	NA	No
22.	Ms. M.Pallavi	BMLPM2486E	M. Tech (Ph.D.)	18/12/2014	CST	2	NA	NA	Assistant Professor	NA	17/06/2020	Regular	Yes	NA	No
23.	Mrs.D.Kiranmai	BTDPD3937L	M. Tech	15/09/2011	CST	2	NA	NA	Assistant Professor	NA	14/08/2020	Regular	Yes	NA	No
24.	Mrs.B. Sailaja	BNOPB1427J	M. Tech (Ph.D.)	28/12/2012	CSE	2	NA	NA	Assistant Professor	NA	18/08/2020	Regular	Yes	NA	No
25.	Mr.M. Anil Kumar	BNWPM1466N	M. Tech	07/09/2015	CS	1	NA	NA	Assistant Professor	NA	21/08/2020	Regular	Yes	NA	No
26.	Mr.V. Rama Rao	APAPV3091D	M. Tech	10/03/2014	CSE	2	NA	NA	Assistant Professor	NA	21/08/2020	Regular	Yes	NA	No
27.	Ms. D. Ramya	BOKPD5296J	M. Tech	10/12/2016	IT	1	NA	NA	Assistant Professor	NA	24/08/2020	Regular	Yes	NA	No
28.	Mr. A. Srinivas	BIEPS9022D	M. Tech (Ph.D.)	12/11/2006	IT	2	NA	NA	Assistant Professor	NA	26/08/2020	Regular	Yes	NA	No
29.	Mrs.N. Suneetha	AKGPN5773R	M. Tech	23/12/2009	CSE	2	NA	NA	Assistant Professor	NA	31/08/2020	Regular	Yes	NA	No
30.	Ms. Afsheen Firdous	AFIPF5417K	M. Tech	01/11/2020	CST	0	NA	NA	Assistant Professor	NA	05/11/2020	Regular	Yes	NA	No
31.	Mrs.M.N.Sravani	CXWPM0451L	M. Tech	01/11/2020	CSE	0	NA	NA	Assistant Professor	NA	10/11/2020	Regular	Yes	NA	No
32.	Mr.L. Jagajeevan Rao	AHVPJ0653Q	M. Tech (Ph.D.)	07/07/2010	CSE	1	NA	NA	Assistant Professor	NA	10/11/2020	Regular	Yes	NA	No
33.	Ms. Ch. Thanuja	BZPPT9468L	M. Tech	01/11//2020	CSE	0	NA	NA	Assistant Professor	NA	13/11/2020	Regular	Yes	NA	No
34.	Ms. P. Sravani	DYPPP01012L	M. Tech	01/11/2020	CST	1	NA	NA	Assistant Professor	NA	18/11/2020	Regular	Yes	NA	No

35.	Mr A. Ganapathi Rao	ATTPA1499H	M.Sc M.Phil	01/04/2007		0	NA	NA	Assistant Professor	NA	02/08/2017	Regular	Yes	NA	No
36.	Mrs T. Suguna	AMIPT6306N	MBA	12/06/2008	HR	NA	NA	NA	Assistant Professor	NA	22/07/2013	Regular	Yes	NA	No
37.	Mrs A. Venkata Laxmi	ANTPV0757B	MBA	15/10/2016	HR	NA	NA	NA	Assistant Professor	NA	14/11/2016	Regular	Yes	NA	No

Table B.5.a: Faculty Information CAY (2020-21)

Faculty Information CAYm1 (2019-20)

S.No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc.)	Initial Date of Joining	Association Type	At present working with the Institution (Yes/No)	In case of NO, Date of Leaving	IS HOD?
1.	Dr. T. V. Madhusudhan Rao	AEBPT7129L	Ph.D.	16/11/2015	CSE	1	NA	NA	Professor	10/06/2017	10/06/2017	Regular	No	01/09/2021	No
2.	Dr. B. Prasad	APHPB3699A	Ph.D.	20/04/2015	CS&SE	1	NA	NA	Professor	15/05/2017	09/11/2012	Regular	No	27/10/2020	No
3.	Dr. K.Vijaya Kumar	CRGPK0379D	Ph.D.	27/09/2017	CSE	6	NA	NA	Associate Professor	29/09/2017	20/05/2013	Regular	Yes	NA	Yes
4.	Dr. N. Thirupathi Rao	ALMPN0429M	Ph.D.	08/04/2015	CSE	1	NA	NA	Associate Professor	24/04/2017	04/01/2016	Regular	No	06/10/2020	No
5.	Mrs. G. Neelima	AWCPG4041M	M. Tech (Ph.D.)	11/12/2019	CSE	1	NA	Yes	Assistant Professor	13/12/2019	02/11/2018	Regular	No	10/09/2021	No
6.	Mrs. P. Vijaya Bharati	BMMPP4953J	M. Tech (Ph.D.)	08/02/2020	CSE	2	NA	Yes	Assistant Professor	10/02/2020	14/09/2009	Regular	Yes	NA	No
7.	Mrs. M. Mamatha Laxmi	AFNPL8164L	M. Tech	30/11/2010	CSE	3	NA	NA	Assistant Professor	NA	21/08/2014	Regular	Yes	NA	No
8.	Mrs. D. Kamal Kumari	ARVPK7556R	M. Tech	30/11/2011	CST	0	NA	NA	Assistant Professor	NA	03/06/2013	Regular	Yes	08/05/2020	No
9.	Mr. B. Venkatesh	ANCPB1637P	M. Tech	31/05/2013	CSE	0	NA	NA	Assistant Professor	NA	24/08/2015	Regular	No	27/10/2020	No
10.	Mr. Ch. Sudhakar	AZBPC5527C	M. Tech	16/10/2015	IT	0	NA	NA	Assistant Professor	NA	13/11/2015	Regular	No	28/09/2020	No
11.	Mr. I. Raju	ACOPI3901N	M. Tech	31/12/2015	CSE	3	NA	NA	Assistant Professor	NA	31/03/2016	Regular	No	26/12/2020	No
12.	Ms. Y. Vineela Sravya	AMQPY6545G	M. Tech	30/04/2015	SE	2	NA	NA	Assistant Professor	NA	11/04/2016	Regular	Yes	NA	No
13.	Mrs. R. Pravallika	AWEPR8621G	M. Tech	29/01/2016	CSE	2	NA	NA	Assistant Professor	NA	31/05/2016	Regular	Yes	NA	No
14.	Mrs. M. Sailaja	BKLPS6658C	M. Tech	30/06/2010	CSE	0	NA	NA	Assistant Professor	NA	30/08/2016	Regular	No	30/09/2020	No
15.	Mrs. G. Sandhya	BPXPG6654R	M. Tech	30/12/2016	CST	3	NA	NA	Assistant Professor	NA	20/03/2017	Regular	Yes	NA	No
16.	Mrs. G. Pavani latha	BPTPG6346A	M. Tech	30/12/2016	CST	3	NA	NA	Assistant Professor	NA	03/04/2017	Regular	Yes	NA	No

17.	Mr. T. Hari babu	AXRPT1221G	M. Tech	30/12/2015	CST	0	NA	NA	Assistant Professor	NA	03/04/2017	Regular	No	01/05/2020	No
18.	Mr. Mohan Mahanty	CAZPM6225J	M. Tech	31/12/2015	CSE	0	NA	NA	Assistant Professor	NA	10/06/2017	Regular	No	25/06/2021	No
19.	Mr. D.Chandra Mouli	AWUPD8520C	M. Tech	28/09/2012	CSE	0	NA	NA	Assistant Professor	NA	12/06/2017	Regular	No	25/06/2021	No
20.	Mr. .P. Praveen Kumar	CAPPP5639D	M. Tech	30/12/2015	CST	0	NA	NA	Assistant Professor	NA	21/04/2017	Regular	No	12/05/2020	No
21.	Mrs. B. Madhavi	DMMPB3313N	M. Tech	30/03/2017	CSE	0	NA	NA	Assistant Professor	NA	08/06/2017	Regular	No	30/09/2020	No
22.	Mr. S. Venkatesh	CWCPS5273F	M. Tech	29/01/2016	CSE	0	NA	NA	Assistant Professor	NA	15/06/2017	Regular	No	12/10/2020	No
23.	Mr. S. Raju Chintalapati	AJZPC4022C	M. Tech	31/12/2014	CSE	0	NA	NA	Assistant Professor	NA	15/06/2017	Regular	No	15/10/2020	No
24.	Mr. M. Krishnam Raju	ARCPM6214D	M. Tech	29/01/2016	CSE	0	NA	NA	Assistant Professor	NA	20/06/2017	Regular	No	15/10/2020	No
25.	Mrs. V. Sree Lahari	AYVPV6668C	M. Tech	28/02/2017	CSE	0	NA	NA	Assistant Professor	NA	28/06/2017	Regular	Yes	NA	No
26.	Mrs. N. Sowjanya Kumari	AYSPN6003A	M. Tech	30/12/2014	CSE	0	NA	NA	Assistant Professor	NA	25/05/2018	Regular	Yes	NA	No
27.	Mr. D. Rajendra Dev	AQJPD7869B	M. Tech (Ph.D.)	30/04/2014	SE	4	NA	NA	Assistant Professor	NA	06/06/2018	Regular	Yes	NA	No
28.	Ms. Rita Roy	BOGPR7762R	M. Tech (Ph.D.)	30/04/2014	CST	4	NA	NA	Assistant Professor	NA	06/06/2018	Regular	Yes	NA	No
29.	Mr. R. Ravi	BFDPR6147A	M. Tech	30/01/2014	CST	3	NA	NA	Assistant Professor	NA	30/06/2018	Regular	Yes	NA	No
30.	Mrs. K. Deepthi Krishna	CYZPK8155M	M. Tech	29/09/2017	CST	2	NA	NA	Assistant Professor	NA	03/05/2019	Regular	No	08/05/2020	No
31.	Mrs.J. Hima Bindhu	AUBPJ3399L	M. Tech	30/02/2015	CSE	2	NA	NA	Assistant Professor	NA	12/06/2019	Regular	Yes	NA	No
32.	Mrs. Sheik Rahamuinissa	BYIPS7561M	M. Tech	30/11/2016	CST	1	NA	NA	Assistant Professor	NA	15/06/2019	Regular	Yes	NA	No
33.	Ms. B. Haritha Laxmi	CPZPB3835C	M. Tech	30/01/2017	CST	2	NA	NA	Assistant Professor	NA	20/06/2019	Regular	Yes	NA	No
34.	Mr. .A. Maheswara Rao	BRTPA2757D	M. Tech	29/12/2017	CST	2	NA	NA	Assistant Professor	NA	21/06/2019	Regular	Yes	NA	No

Table B.5.b: Faculty Information CAYm1 (2019-20)

Faculty Information CAYm2 (2018-19)

S.No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc.)	Initial Date of Joining	Association Type	At present working with the Institution(Yes/No)	In case of NO, Date of Leaving	IS HOD?
1.	Dr. M. Ben Swarup	AJMPM5602R	Ph.D.	20/04/2011	CSSE	0	NA	NA	Professor	16/06/2012	16/06/2012	Regular	No	10/05/2019	No
2.	Dr. T. V. Madhusudhan Rao	AEBPT7129L	Ph.D.	16/11/2015	CSE	1	NA	NA	Professor	10/06/2017	10/06/2017	Regular	No	01/09/2021	No
3.	Dr. B. Prasad	APHPB3699A	Ph.D.	20/04/2015	CSSE	1	NA	NA	Professor	15/05/2017	09/11/2012	Regular	No	27/10/2020	No
4.	Dr. K. Vijaya Kumar	CRGPK0379D	Ph.D.	27/09/2017	CSE	3	NA	NA	Associate Professor	29/09/2017	20/05/2013	Regular	Yes	NA	Yes
5.	Dr. N. Thirupathi Rao	ALMPN0429M	Ph.D.	08/04/2015	CSSE	1	NA	NA	Associate Professor	24/04/2017	04/01/2016	Regular	No	06/10/2020	No
6.	Dr. J. Anitha	AQLPA6236H	Ph.D.	17/03/2016	CSSE	1	NA	NA	Associate Professor	21/03/2016	18/11/2015	Regular	No	01/07/2019	No
7.	Mrs P. Vijaya Bharati	BMMPP4953J	M. Tech (Ph.D.)	08/02/2020	CSE	1	NA	NA	Assistant Professor	10/02/2020	14/09/2009	Regular	Yes	NA	No
8.	Mr. S. Ram Prasad Reddy	BDRPS6683J	M. Tech (Ph.D.)	29/08/2008	CSE	0	NA	NA	Assistant Professor	NA	28/04/2011	Regular	No	12/02/2020	No
9.	Mr. L. Bhupathi Rao	AHBPL9990Q	M. Tech (Ph.D.)	29/10/2010	CST	0	NA	NA	Assistant Professor	NA	01/11/2011	Regular	No	14/10/2019	No
10.	Mr. B. A. Ganesh	BEOPB2020Q	M. Tech	31/10/2011	CSE	0	NA	NA	Assistant Professor	NA	15/11/2011	Regular	No	14/10/2019	No
11.	Mr. A.N. Suresh	AMNPA6628B	M. Tech	31/09/2011	CST	0	NA	NA	Assistant Professor	NA	01/12/2011	Regular	No	14/10/2019	No
12.	Mrs. D. Kamal Kumari	ARVPK7556R	M. Tech	30/11/2011	CST	0	NA	NA	Assistant Professor	NA	03/06/2013	Regular	No	08/05/2020	No
13.	Mrs. K. Madhuri	AGSPT2286R	M. Tech	30/01/2015	CSE	0	NA	NA	Assistant Professor	NA	03/06/2013	Regular	No	15/06/2019	No
14.	Mrs. M. Mamatha Laxmi	AFNPL8164L	M. Tech	30/11/2010	CSE	0	NA	NA	Assistant Professor	NA	21/08/2014	Regular	Yes	NA	No
15.	Mrs. S. Chandini	AHBPL9990Q	M. Tech	29/10/2010	CN	0	NA	NA	Assistant Professor	NA	21/04/2015	Regular	No	05/06/2019	No

16.	Mr. B. Venkatesh	ANCPB1637P	M. Tech	31/05/2013	CSE	0	NA	NA	Assistant Professor	NA	24/08/2015	Regular	No	27/10/2020	No
17.	Mr. Ch. Sudhakar	AZBPC5527C	M. Tech	16/10/2015	IT	0	NA	NA	Assistant Professor	NA	13/11/2015	Regular	No	25/06/2021	No
18.	Ms. T. Padmavathy	BEOPB2020Q	M. Tech	31/10/2011	CSE	0	NA	NA	Assistant Professor	NA	09/12/2015	Regular	No	04/10/2019	No
19.	Mr. I. Raju	ACOPI3901N	M. Tech	31/12/2015	CST	1	NA	NA	Assistant Professor	NA	31/03/2016	Regular	No	26/12/2020	No
20.	Ms. Y. Vineela Sravya	AMQPY6545G	M. Tech	30/04/2015	SE	1	NA	NA	Assistant Professor	NA	11/04/2016	Regular	Yes	NA	No
21.	Mrs. R. Pravallika	AWEPR8621G	M. Tech	29/01/2016	CSE	1	NA	NA	Assistant Professor	NA	31/05/2016	Regular	Yes	NA	No
22.	Mrs. D. Savitri	AKXPD2150P	MS	31/03/2011	SE	0	NA	NA	Assistant Professor	NA	11/07/2016	Regular	No	25/07/2019	No
23.	Mrs. M. Sailaja	BKLPS6658C	M. Tech	30/06/2010	CSE	0	NA	NA	Assistant Professor	NA	30/08/2016	Regular	Yes	30/09/2020	No
24.	Mrs. G. Sandhya	BPXPG6654R	M. Tech	30/12/2016	CST	0	NA	NA	Assistant Professor	NA	20/03/2017	Regular	Yes	NA	No
25.	Mrs. G. Pavani latha	BPTPG6346A	M. Tech	30/12/2016	CST	0	NA	NA	Assistant Professor	NA	03/04/2017	Regular	Yes	NA	No
26.	Mr. T. Hari babu	AXRPT1221G	M. Tech	30/12/2015	CST	1	NA	NA	Assistant Professor	NA	03/04/2017	Regular	No	01/05/2020	No
27.	Mr.Ch. V. Bhikshapathi	BHEPC3731Q	M. Tech	27/02/2017	CST	0	NA	NA	Assistant Professor	NA	10/04/2017	Regular	No	24/06/2019	No
28.	Mr. .P. Praveen Kumar	CAPPP5639D	M. Tech	30/12/2015	CST	0	NA	NA	Assistant Professor	NA	21/04/2017	Regular	No	12/05/2020	No
29.	Mrs. B. Madhavi	DMMPB3313N	M. Tech	30/03/2017	CSE	0	NA	NA	Assistant Professor	NA	08/06/2017	Regular	No	30/09/2020	No
30.	Mr. Mohan Mahanty	CAZPM6225J	M. Tech	31/12/2015	CSE	0	NA	NA	Assistant Professor	NA	10/06/2017	Regular	No	25/06/2021	No
31.	Mr. D. Chandra mouli	AWUPD8520C	M. Tech	28/09/2012	CSE	0	NA	NA	Assistant Professor	NA	12/06/2017	Regular	No	25/06/2021	No
32.	Mr. S. Venkatesh	CWCPS5273F	M. Tech	29/01/2016	CSE	0	NA	NA	Assistant Professor	NA	15/06/2017	Regular	No	12/10/2020	No
33.	Mr. S. Raju Chintalapati	AJZPC4022C	M. Tech	31/12/2014	CSE	0	NA	NA	Assistant Professor	NA	15/06/2017	Regular	No	15/10/2020	No
34.	Mr. M. Krishnam Raju	ARCPM6214D	M. Tech	29/01/2016	CSE	0	NA	NA	Assistant Professor	NA	20/06/2017	Regular	No	15/10/2020	No

35.	Mrs. V. Sree Lahari	AYVPV6668C	M. Tech	28/02/2017	CSE	0	NA	NA	Assistant Professor	NA	28/06/2017	Regular	Yes	NA	No
36.	Mrs. N. Sowjanya Kumari	AYSPN6003A	M. Tech	30/12/2014	CSE	0	NA	NA	Assistant Professor	NA	25/05/2018	Regular	Yes	NA	No
37.	Mr. D. Rajendra Dev	AQJPD7869B	M. Tech (Ph.D.)	30/04/2014	SE	2	NA	NA	Assistant Professor	NA	06/06/2018	Regular	Yes	NA	No
38.	Ms. Rita Roy	BOGPR7762R	M. Tech (Ph.D.)	30/04/2014	CST	3	NA	NA	Assistant Professor	NA	06/06/2018	Regular	Yes	NA	No
39.	Mr. R. Ravi	BFDPR6147A	M. Tech	30/01/2014	CST	0	NA	NA	Assistant Professor	NA	30/06/2018	Regular	Yes	NA	No

Table B.5.c: Faculty Information CAYm2 (2018-19)

Faculty Information CAYm3 (2017-18)

S.No	Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc.)	Initial Date of Joining	Association Type	At present working with the Institution(Yes/No)	In case of NO, Date of Leaving	IS HOD?
1.	Dr. M. Ben Swarup	AJMPM5602R	Ph.D.	20/04/2011	CSSE	0	NA	NA	Professor	16/06/2012	16/06/2012	Regular	No	10/05/2019	No
2.	Dr. T. V. Madhusudhan Rao	AEBPT7129L	Ph.D.	16/11/2015	CSE	1	NA	NA	Professor	10/06/2017	10/06/2017	Regular	No	01/09/2021	No
3.	Dr. B. Prasad	APHPB3699A	Ph.D.	20/04/2015	CSSE	1	NA	NA	Professor	15/05/2017	09/11/2012	Regular	No	27/10/2020	No
4.	Dr K. Vijaya Kumar	CRGPK0379D	Ph.D.	27/09/2017	CSE	1	NA	Yes	Associate Professor	29/09/2017	20/05/2013	Regular	Yes	NA	Yes
5.	Dr. N. Thirupathi Rao	ALMPN0429M	Ph.D.	08/04/2015	CSSE	1	NA	NA	Associate Professor	24/04/2017	04/01/2016	Regular	No	06/10/2020	No
6.	Dr. J. Anitha	AQLPA6236H	Ph.D.	17/03/2016	CSSE	1	NA	NA	Associate Professor	21/03/2016	18/11/2015	Regular	No	01/07/2019	No
7.	Mrs P. Vijaya Bharati	BMMPP4953J	M. Tech (Ph.D.)	08/02/2020	CSE	0	NA	NA	Assistant Professor	10/02/2020	14/09/2009	Regular	Yes	NA	No
8.	Mr. B. Venkatesh	ANCPB1637P	M. Tech	31/05/2013	CSE	0	NA	NA	Assistant Professor	NA	24/08/2015	Regular	No	27/10/2020	No
9.	Mr. Ch. Sudhakar	AZBPC5527C	M. Tech	16/10/2015	IT	0	NA	NA	Assistant Professor	NA	13/11/2015	Regular	No	28/09/2020	No
10.	Mr. Mohan Mahanty	CAZPM6225J	M. Tech	31/12/2015	CSE	0	NA	NA	Assistant Professor	NA	10/06/2017	Regular	No	25/06/2021	No
11.	Mr. D. Chandra mouli	AWUPD8520C	M. Tech	28/09/2012	CSE	0	NA	NA	Assistant Professor	NA	12/06/2017	Regular	No	25/06/2021	No
12.	Mrs. M. Mamatha Laxmi	AFNPL8164L	M. Tech	30/11/2010	CSE	0	NA	NA	Assistant Professor	NA	21/08/2014	Regular	Yes	NA	No
13.	Mrs. D. Kamal Kumari	ARVPK7556R	M. Tech	30/11/2011	CST	1	NA	NA	Assistant Professor	NA	03/06/2013	Regular	No	08/05/2020	No
14.	Mr. I. Raju	ACOPI3901N	M. Tech	31/12/2015	CST	0	NA	NA	Assistant Professor	NA	31/03/2016	Regular	No	26/12/2020	No
15.	Ms. Y. Vineela Sravya	AMQPY6545G	M. Tech	30/04/2015	SE	0	NA	NA	Assistant Professor	NA	11/04/2016	Regular	Yes	NA	No

16.	Mrs. R. Pravallika	AWEPR8621G	M. Tech	29/01/2016	CSE	0	NA	NA	Assistant Professor	NA	31/05/2016	Regular	Yes	NA	No
17.	Mrs. G. Sandhya	BPXPG6654R	M. Tech	30/12/2016	CST	0	NA	NA	Assistant Professor	NA	20/03/2017	Regular	Yes	NA	No
18.	Mrs. G. Pavani latha	BPTPG6346A	M. Tech	30/12/2016	CST	0	NA	NA	Assistant Professor	NA	03/04/2017	Regular	Yes	NA	No
19.	Mr. T. Hari babu	AXRPT1221G	M. Tech	30/12/2015	CST	0	NA	NA	Assistant Professor	NA	03/04/2017	Regular	No	01/05/2020	No
20.	Mr. .P. Praveen Kumar	CAPPP5639D	M. Tech	30/12/2015	CST	0	NA	NA	Assistant Professor	NA	21/04/2017	Regular	No	12/05/2020	No
21.	Mrs. B. Madhavi	DMMPB3313N	M. Tech	30/03/2017	CSE	0	NA	NA	Assistant Professor	NA	08/06/2017	Regular	No	30/09/2020	No
22.	Mr. S. Venkatesh	CWCPS5273F	M. Tech	29/01/2016	CSE	0	NA	NA	Assistant Professor	NA	15/06/2017	Regular	No	12/10/2020	No
23.	Mr. S. Raju Chintalapati	AJZPC4022C	M. Tech	31/12/2014	CSE	0	NA	NA	Assistant Professor	NA	15/06/2017	Regular	No	15/10/2020	No
24.	Mr. M. Krishnam Raju	ARCPM6214D	M. Tech	29/01/2016	CSE	0	NA	NA	Assistant Professor	NA	20/06/2017	Regular	No	15/10/2020	No
25.	Mr. S. Ram Prasad Reddy	BDRPS6683J	M. Tech	29/08/2008	CSE	3	NA	NA	Assistant Professor	NA	28/04/2011	Regular	No	12/02/2020	No
26.	Mr. L. Bhupathi Rao	AHBPL9990Q	M. Tech	29/10/2010	CST	0	NA	NA	Assistant Professor	NA	01/11/2011	Regular	No	14/10/2019	No
27.	Mr. B. A. Ganesh	BEOPB2020Q	M. Tech	31/10/2011	CSE	0	NA	NA	Assistant Professor	NA	15/11/2011	Regular	No	14/10/2019	No
28.	Mr. A.N. Suresh	AMNPA6628B	M. Tech	31/09/2011	CST	0	NA	NA	Assistant Professor	NA	01/12/2011	Regular	No	14/10/2019	No
29.	Mrs. K. Madhuri	AGSPT2286R	M. Tech	30/01/2015	CSE	0	NA	NA	Assistant Professor	NA	03/06/2013	Regular	No	15/06/2019	No
30.	Mrs. S. Chandini	AHBPL9990Q	M. Tech	29/10/2010	CSE	0	NA	NA	Assistant Professor	NA	21/04/2015	Regular	No	05/06/2019	No
31.	Ms. T. Padmavathy	BEOPB2020Q	M. Tech	31/10/2011	CSE	0	NA	NA	Assistant Professor	NA	09/12/2015	Regular	No	04/10/2020	No
32.	Mr.Ch. V. Bhikshapathi	BHEPC3731Q	M. Tech	27/02/2017	CST	0	NA	NA	Assistant Professor	NA	10/04/2017	Regular	No	24/06/2019	No
33.	Mrs. D. Savitri	AKXPD2150P	MS	31/03/2011	SE	0	NA	NA	Assistant Professor	NA	11/07/2016	Regular	No	25/07/2019	No
34.	Mr. N. K. Santosh	ALYPN1259M	M. Tech	30/04/2010	CSE	0	NA	NA	Assistant Professor	NA	14/06/2010	Regular	No	26/12/2018	No

35.	Mrs. K. Narsamma	CGZPK1851N	M. Tech	28/09/2012	CSE	0	NA	NA	Assistant Professor	NA	01/11/2012	Regular	No	02/07/2018	No
36.	Ms. D. Chandrika	BGOPD0542D	M. Tech	30/12/2014	CST	1	NA	NA	Assistant Professor	NA	22/01/2015	Regular	No	28/07/2018	No
37.	Mr. V. Uma Shankar Rao	AOUPV0199M	M. Tech	30/11/2015	CSE	0	NA	NA	Assistant Professor	NA	23/11/2015	Regular	No	05/07/2018	No
38.	Mrs. J. Aruna Devi	AVRPJ2934J	M. Tech	29/04/2011	CSE	0	NA	NA	Assistant Professor	NA	16/03/2017	Regular	No	20/08/2018	No
39.	Mr. K. Mariya babu	DTIPK6020E	M. Tech	30/12/2016	CST	0	NA	NA	Assistant Professor	NA	07/04/2017	Regular	No	15/06/2018	No
40.	Mrs. Ch. Ramya	AQVPN4759Q	M. Tech	31/10/2011	CSE	0	NA	NA	Assistant Professor	NA	15/07/2017	Regular	No	18/09/2018	No
41.	Mrs. M. Sailaja	BKLPS6658C	M. Tech	30/06/2010	CSE	0	NA	NA	Assistant Professor	NA	30/08/2016	Regular	No	30/09/2020	No
42.	Mrs. V. Sree Lahari	AYVPV6668C	M. Tech	28/02/2017	CSE	0	NA	NA	Assistant Professor	NA	28/06/2017	Regular	Yes	NA	No
43.	Mr. D. Lova Raju	DPSPD2516C	M. Tech	30/12/2016	CST	0	NA	NA	Assistant Professor	NA	20/07/2017	Regular	No	10/05/2018	No

Table B.5.d: Faculty Information CAYm3 (2017-18)

5.1. Student-Faculty Ratio (SFR) (20)
(To be calculated at Department Level)

No. of UG Programs in the Department (n): **01**
No. of PG Programs in the Department (m): **01**
No. of Students in UG 2nd Year= u1
No. of Students in UG 3rd Year= u2
No. of Students in UG 4th Year= u3
No. of Students in PG 1st Year= p1
No. of Students in PG 2nd Year= p2

No. of Students = Sanctioned Intake + Actual admitted lateral entry students
(The above data to be provided considering all the UG and PG programs of the department)
S=Number of Students in the Department = UG1 + UG2 +… +UGn + PG1 + …PGn

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR) = S / F

Year	CAY (2020-21)	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)
u1.1	193+18	193+18	180+21	180+14
u1.2	193+18	180+21	180+14	180+11
u1.3	180+21	180+14	180+11	180+12
UG1	**u1.1+u1.2+u1.3 623**	**u1.1+u1.2+u1.3 606**	**u1.1+u1.2+u1.3 586**	**u1.1+u1.2+u1.3 577**
p1.1	18	18	18	18
p1.2	18	18	18	18
PG1	**p1.1+p1.2 36**	**p1.1+p1.2 36**	**p1.1+p1.2 36**	**p1.1+p1.2 36**
Total No. of Students in the Department **(S)**	**S1 = 659**	**S2 = 642**	**S3 = 622**	**S4=613**
No. of Faculty in the Department **(F)**	**F1 = 37**	**F2 = 34**	**F3 = 39**	**F4=43**
Student Faculty Ratio (SFR)	**SFR1=S1/F1= 17.81**	**SFR2=S2/F2= 18.88**	**SFR3=S3/F3= 15.95**	**SFR3=S4/F4= 14.26**
Average SFR	-	**SFR=(SFR2+SFR3+SFR4) / 3 = 16.36**		
	SFR=(SFR1+SFR2+SFR3) / 3 = 17.54			-

Table B.5.1: Student-Faculty Ratio

Note: Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1 and zero for average SFR higher than 25:1. Marks distribution is given as below:

< = 15 - 20 Marks
< = 17 - 18 Marks
< = 19 - 16 Marks
< = 21 - 14 Marks
< = 23 - 12 Marks
< = 25 - 10 Marks
> 25.0 - 0 Marks

All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

1. *Shall have the AICTE prescribed qualifications and experience.*
2. *Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.*
3. *Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.*

5.1.1 Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2020-21)	37	NIL
CAYm1(2019-20)	34	NIL
CAYm2(2018-19)	39	NIL
CAYm3(2017-18)	43	NIL

Table B.5.1.1: Faculty Information

5.2. Faculty Cadre Proportion (25)

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

Year	Professors		Associate Professors		Assistant Professors	
	Required (F1)	Available	Required (F2)	Available	Required (F3)	Available
CAY (2020-21)	3	2	7	2	22	33
CAYm1 (2019-20)	3	2	7	2	21	30
CAYm2 (2018-19)	3	3	6	3	20	33
Average Numbers	RF1 = 3.00	AF1 = 2.33	RF2 = 6.66	AF2 = 2.33	RF3 = 21.00	AF3 = 32.00

Cadre Ratio Marks (2018-21) = $\left[\left[\frac{AF1}{RF1}\right] + \left[\frac{AF2}{RF2} * 0.6\right] + \left[\frac{AF3}{RF3} * 0.4\right]\right] * \ 12.5 =$ **19.62**

Year	Professors		Associate Professors		Assistant Professors	
	Required (F1)	Available	Required (F2)	Available	Required (F3)	Available
CAYm1 (2019-20)	3	2	7	2	21	30
CAYm2 (2018-19)	3	3	6	3	20	33
CAYm2 (2017-18)	3	3	6	2	20	38
Average Numbers	RF1 = 3.00	AF1 = 2.66	RF2 = 6.33	AF2 = 2.33	RF3 = 20.33	AF3 = 33.66

Cadre Ratio Marks (2017-20) = $\left[\left[\frac{AF1}{RF1}\right] + \left[\frac{AF2}{RF2} * 0.6\right] + \left[\frac{AF3}{RF3} * 0.4\right]\right] * \ 12.5 =$ **22.00**

Table B.5.2 Faculty Cadre Proportion

5.3. Faculty Qualification (25)

FQ =2.5 × [(10X +4Y)/F)] where X is no. of regular faculty with Ph.D., Y is no. of regular faculty with M.Tech. F is no. of regular faculty required to comply 20:1 Faculty-Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Year	X	Y	F	FQ=2.5 x [(10X +4Y)/F)]	FQ=2.5 x [(10X +4Y)/F)]
CAY (2020-21)	4	30	32	-	12.50
CAYm1 (2019-20)	4	30	32	12.50	12.50
CAYm2 (2018-19)	6	33	31	15.48	15.48
CAYm3 (2017-18)	5	38	40	12.31	-
Average Assessment				**12.25**	**13.50**

Table B.5.3: Faculty Qualification

5.4. Faculty Retention (25)

Item	*Marks*
>=90% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	*25*
>=75% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	*20*
>=60% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	*15*
>=50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	*10*
<50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	*0*

Description	2018-19	2019-20
No. of Faculty Retained	35	24
Total No. of Faculty	43	43
% of faculty Retained CAYm3(2017-18)	81	56

Average Retention ratio= 68.5

Assessment Marks= 15

Description	2019-20	2020-21
No. of Faculty Retained	28	15
Total No of Faculty	39	39
% of Faculty Retained CAYm2(2018-19)	71	38

Average retention ratio = 54.5

Assessment Marks = 10

Table B.5.4: Faculty Retention

5.5. Innovations by the Faculty in Teaching and Learning (20)

Innovations by the Faculty in teaching and learning shall be summarized as per the following description.

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation and inclusive class rooms that lead to effective, efficient and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

- *The work must be made available on Institute website*
- *The work must be available for peer review and critique*
- *The work must be reproducible and developed further by other scholars*

The department/institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation, use of appropriate methods, and significance of results, effective presentation and reflective critique

Innovations by the Faculty in teaching and learning shall be summarized as per the following

In present competitive world, the technology is changing very rapidly. The engineering graduates must capable of acquaint with these changes to grab the opportunities globally. This can be achieved through effective content delivery. Students will come from different locations with different aspirations which in turn influence the learning style. Irrespective of learning style of the student, as an educator the content must be delivered effectively through innovative

practices in Teaching & Learning to make them globally acceptable in line with our mission and vision.

A. Work is available in the institution website (4)

Department of CSE follows a systematic framework for implementation of innovative teaching learning strategies effectively in regular course work along with traditional classroom teaching. The detailed framework for implementation of teaching learning practices is as shown in below Figure5.5a.

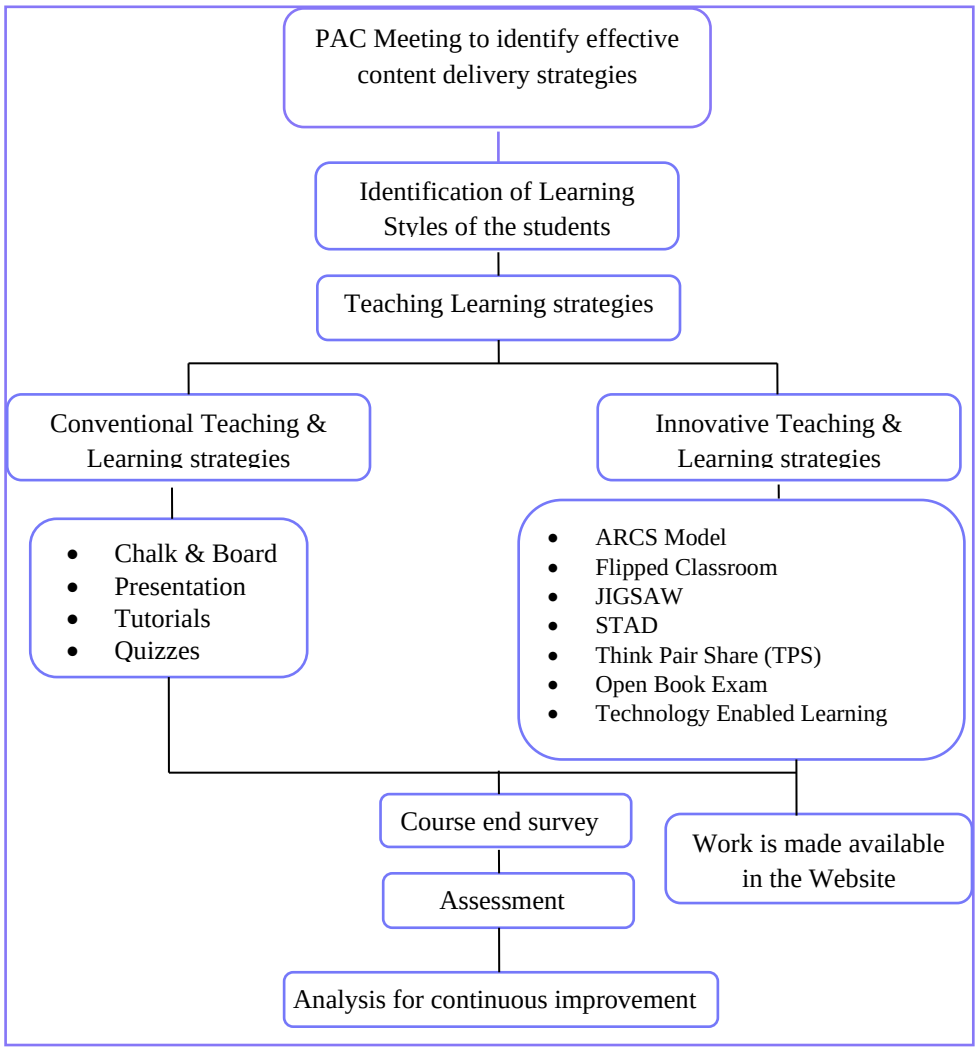


Figure 5.5.a: Framework for the implementation of Innovative Teaching Learning & Conventional Teaching Learning Strategies

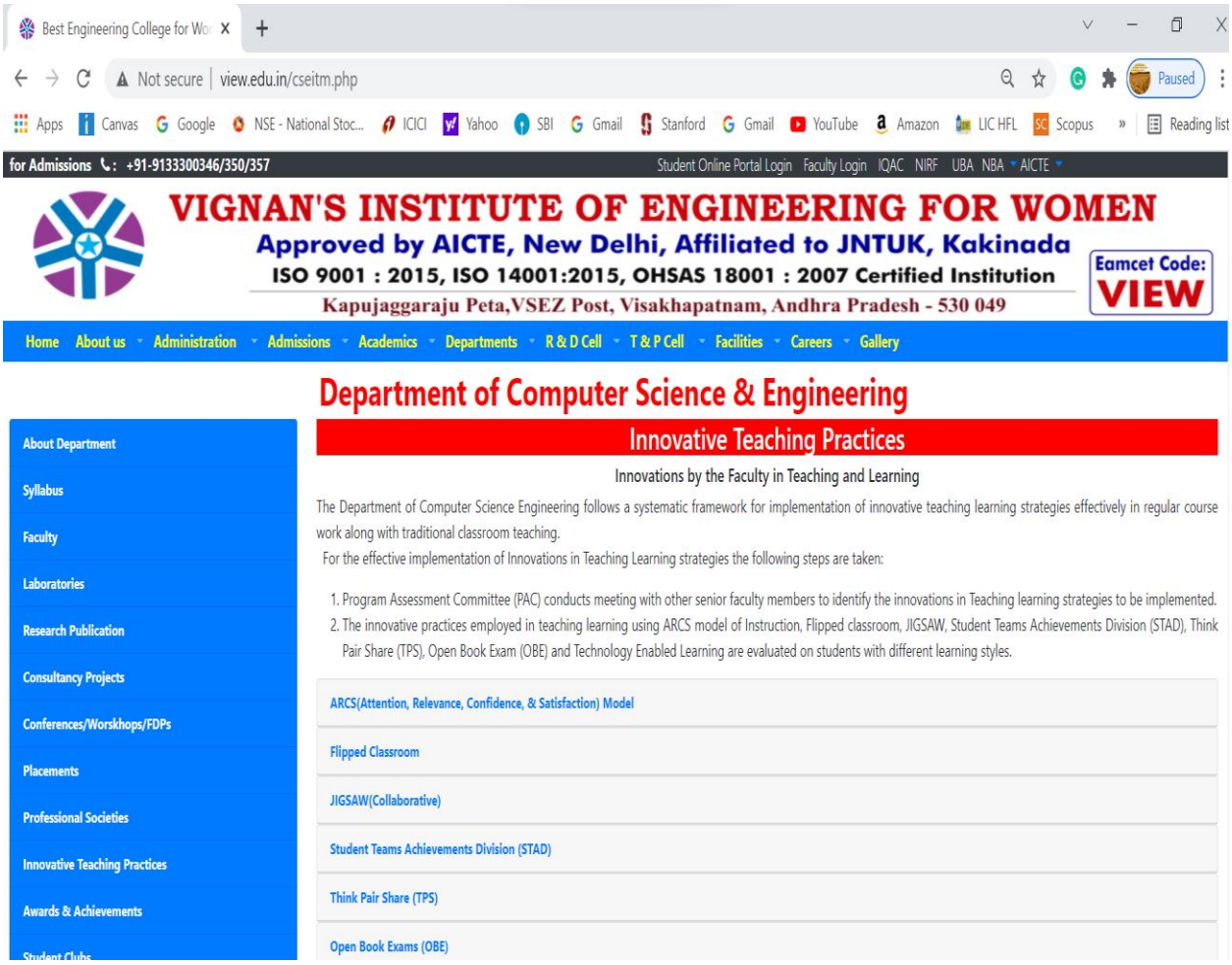


Figure 5.5.b: Innovative Teaching Learning Strategies available on Website

For the effective implementation of Innovations in Teaching Learning strategies the following steps are taken:

1. Program Assessment Committee (PAC) conducts meeting with other senior faculty members to identify the innovations in Teaching learning strategies to be implemented
2. The innovative practices employed in teaching learning using ARCS model of Instruction, Flipped classroom, JIGSAW, Student Teams Achievements Division (STAD), Think Pair Share (TPS), Open Book Exam (OBE) and Technology Enabled Learning are evaluated on students with different learning styles. We conducted a questionnaire to students to assess their learning styles using Felder and Silverman model. The following link is used to conduct the survey

http://www4.ncsu.edu/unity/lockers/users/f/felder/public/ILSpage.html

3. According to Felder there are four dimension of learning styles, with each dimension having two opposite categories.
    i. Sensing / Intuitive - How information is perceived?
    ii. Visual / Verbal - How information is presented?
    iii. Active / Reflective - How information is processed?
    iv. Sequential / Global - How information is understanding?
4. Students can be classified based on their learning styles as Active / Reflective, Sensing / Intuitive, Visual / Verbal and Sequence / Global as shown in Table 5.5.1

Type of Learner	Preferences
Sensing	prefers concrete thinking, practical, concerned with facts and procedures
Intuitive	prefers conceptual thinking, innovative, concerned with theories and meanings
Visual	prefers visual representations, pictures, diagrams, and flowcharts
Verbal	prefers written and spoken explanations
Active	prefers to try things out, working with other in groups
Reflective	prefers thinking things through, working alone or with familiar partner
Sequential	prefers linear thinking, orderly learns in small incremental steps
Global	prefers holistic thinking, system thinkers, learns in large leaps

Table 5.5.1: Types of learners and their preferences

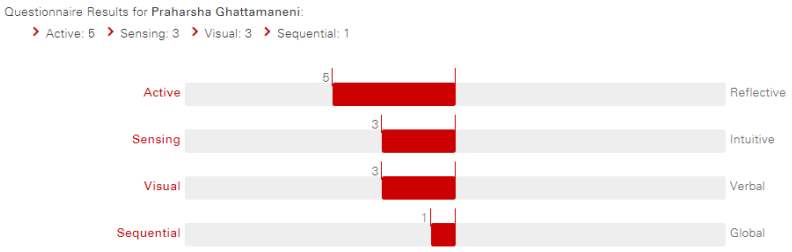


Figure 5.5.c: Felder- Silverman index of learning styles

5. Course end survey is collected from all the students at the end of each course on their understandings with reference to teaching style adopted
6. Students' performance is assessed in MID examinations and University end examinations as per the university guidelines.
7. The obtained results are analyzed for the preparation of action plan for the next academic year

8. The contribution of faculty towards innovations in teaching learning are made available in the institute website for peer review and critique

B. Work is available for peer review and critique (4)

The innovations adopted for teaching and learning in our department are made available for peer review and critique by encouraging our faculty to do Engineering Educator Certification (IIEECP) course which is organized by Indo Universal Collaboration for Engineering Education (IUCEE) in association with International Society for Engineering Pedagogy (IGIP), Austria and Microsoft. The following is the sample of peer review and critique received from the reviewers for the Innovations made by our department faculty towards Teaching and Learning.

Name of the faculty	Strategies submitted for peer review and critique	Peer review and critique by reviewer	
		Marks (15M)	Comments
Prof. A. Sesha Rao	Creating dynamic classroom 1.Use Pictures, Schematics, graphs and simple sketches 2.Providing open ended problem	15	Excellent work! Happy to know that you are an enthusiastic teacher, it really helps in getting better outcome in class as students also takes things positively. Do enjoy the implementation. *Azeem Unnisa, Feb 14, 2018 at 4:03pm*
	Creating dynamic classroom 1. Think Pair Share 2. Writing Assignments	15	Excellent work! I would like to know how the derivation was completed using TPS activity, it would have been better if the activity was explained phase wise of the TPS activity. Usually, TPS is conducted for 2 to 3 mins maximum. *Azeem Unnisa, Feb 18, 2018 at 3:58pm*
	Effective Assessment-1	11	Good Information *sanjeev_kavale@bvb.edu, May 1, 2018 at 9:52am*
	Effective Assessment-2	15	Well written, Reflective analysis is missing *sanjeev_kavale@bvb.edu, May 1, 2018 at 11:32am*
	Harnessing the power of technology- Creating course website	13	Your submission page is impressive and you detailed each screenshot elaborately. I don't find any details about the syllabus from the screenshot and so as the associated items overall a good attempt. *Rajdeep Deb , Apr 11, 2018 at 7:33pm*
	Harnessing the power of technology- Flipped classroom	15	Your submission clear and exciting. A good attempt for flipped classroom environment. Your reflective report involve good level of critical analysis, to me this is the showstopper of your submission. Like the fact that you shared all the content through LMS that is the prime purpose for which we asked you to develop LMS. *Rajdeep Deb , Apr 13, 2018 at 12:55am*

Table 5.5.2: Report on Peer review and critique by reviewer of Prof. A. Sesha Rao

Along with it, we encourage our faculty to publish papers in engineering education related journals.

C) Work must be reproducible and developed further by other scholars (2)

The innovation strategies adopted by faculty are made available in department library along with publishing in institute website. The faculty who implemented the strategy will conduct an orientation program to all the colleague faculty members and explains goals, significance and

the way of selecting appropriate strategy. With this strategy, most of the faculty will try to reproduce the innovation strategies while delivering courses in the upcoming semesters. Our faculty also encouraged to submit papers on the innovation's strategies adopted

The scholars or colleague faculty may reproduce the innovation teaching learning strategies by incorporating

1. As the quality of methodology greatly influenced by the learning style of the student, the work may be carried out with another method of assessing learning styles of the students like Grasha-Reichmann model.
2. Flipped classroom may be conducted with another method of collaborating activity like JIGSAW or STAD as in class activity
3. JIGSAW strategy may be reproduced and observe the effectiveness by reducing the team size.

D) Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective critique (10)

The innovative teaching learning strategies provide opportunities for students to work in teams, learn from peers, and learn from themselves. Also, the students have opportunity to engage in sophisticated and complex levels of cognitive activity–define, analyze, evaluate, reflect, assess, and solve real-world problems. The evaluation suggests that implementation of these methodologies in the engineering design courses improve the higher-level cognitive skills of the students as well as integrated theory, design, and practice.

I. Appropriate methods

To improve the quality of teaching learning and to make students actively participate in the class environment, the following are the appropriate methods.

The appropriate innovations in teaching learning are:

1. ARCS (Attention, Relevance, Confidence, & Satisfaction) Model
2. Flipped Classroom
3. JIGSAW
4. Student Teams Achievements Division (STAD)
5. Think Pair Share (TPS)
6. Open Book Exam (OBE)
7. Technology Enabled Learning (TEL)

1. ARCS Model

In any classroom, some students might learn more than students in the same or another classroom. The main reason for this is different levels of learning for students both within and across classrooms. In general, for effective content delivery, every educator must try to see that the content is reachable to at least 95% of the students in class.

Goals of the strategy:

The ARCS model is an instructional design approach that focuses on the motivational aspects of learning environment. The model was created by John Keller in the 80s. According to John Keller there are four steps in the instructional design process — Attention, Relevance, Confidence, & Satisfaction (ARCS).

- Attention refers to the interest displayed by learners in taking in the concepts/ ideas being taught
- Relevance describes how the knowledge will help the learner's today and in the future (getting into a college or finding a job or getting a promotion)
- Learning design enhances the students' confidence with a method for estimating their probability of success
- Learners must obtain some type of satisfaction or a reward from a learning experience. This can be in the form of a sense of achievement.

Topic **:** Pipeline Architecture

Subject **:** Computer Architecture & Organization

Year and Semester **: II CSE I SEM**

Learning objective for the lecture: The student is able to:

- ✓ Understand pipeline architecture processor - RISC Pipeline Vector processing.

Component	**Implementation Strategies**
Attention (What is interesting about this?) ***Topic Content***: Pipeline Architecture - RISC processor	To draw the learners **Attention:** 1) Started class with brainstorming session by posing questions on what is meant by pipeline, multi-tasking, parallel execution, task breaking etc., 2) Since pipeline architecture is advanced technology, proposed to arrange 'Summer Internship ' to Defense Research Organization. 3) Gave real live product car fabrication which is fabricated in pipelined fashion.

	4) To understand the real concept of throughput calculation played video lectures with animation drawn from NPTEL sources. 5) Used a variety of methods to reinforce the course material and which helps to incorporate a variety of learning styles.
Relevance (Why should I be wasting my time studying this?) ***Topic Content***: Pipeline Architecture - RISC processor	The strategies to accomplish the **Relevance:** 1) Students are briefed about the importance of new leavening- This concept is more useful for microprocessor based embedded systems for which lot of avenues are open. Also useful to get jobs in IOT related applications. A lot of demand in FABS companies, Chip fabrication companies, for students who are strong in Pipeline Architecture 2) Case studies: Students are assigned with some case studies related RISC, CISC Processor based computers mostly used in whether forecasting. 3) Goal oriented students: For those students who dream pursuing higher studies and do research this is one area where there is a lot of scope. 4) Machine Learning applications (especially Artificial Neural Networks) executing speed plays a major role so using pipe line architecture processor speed can be enhanced. 5) Role Model: One super senior of our college presently who is working for INTEL company after finishing his MS in US, doing the job of writing ***microprogramming*** code for dual processors.
Confidence (This is not difficult-I can do it)	To build a sense of **Confidence in** learners: 1) Motivation: In the beginning of the semester the students were told about evaluation process. The importance of each examination including online exam and home assignments is very much motivated. The students will be motivated with quote like ' if first button of a short is put wrongly, rest of the buttons also will be put wrongly, in the same if a student fails in one semester its impact will be there on rest of the semesters. ***2) Self Growth:*** Each student was asked to prepare their future Goals, type neatly display in his/her study room. They were also asked to display great scientists' photos like, Einstein, Faraday, in study room. The Goals are revised by me frequently. They are also advised to participate in Campus Recruitment training Courses and technical workshops.

Topic Content: Pipeline Architecture - RISC processor	Goals are verified by T&P faculty once in a month and were asked to rewrite/modify their own Goals. ***3) Feedback:*** Mentors are appointed for every 20 students to monitor their performance in every month. Mid exams marks are displayed in notice board and poor performance students are motivated to improve their performance. Slow learners are identified based on their performance, special care is taken for such students to improve their performance. ***4) Small Group Activities***: Students are divided into groups of three to six. Each group is assigned a team number and each group member is assigned a unique id. . When the trainer poses a question, group members get together, examine the possibilities, and construct an answer. The trainer then picks a number by drawing a card or rolling a die. The number selected designates the spokesperson for each table group. A second number designates the table group that will respond first. By involving in such group activities students are well motivated.
Satisfaction (This is great - I have learnt something new and useful) ***Topic Content***: Pipeline Architecture - RISC processor	**Learner's Satisfaction:** 1) Outstanding performance students are appreciated through rewards in public, like their names are displayed in college notice board, special appreciation letter from principal, fee wavering from management. 2) Parents whose wards selected on campus drives are felicitated along with their ward on Graduation Day. It gives motivation to juniors and self-satisfaction for selected students. 3) Equity: Transparency is maintained in all evaluation systems. Perfect rubrics are defined and displayed for students. Examination system is transparent, and all mid marks are displayed in notice boards.

Table 5.5.3: Implementation of ARCS model

Significance of results & reflective critique:

The objective of this assignment is to learn how to apply the ARCS model to the content we are teaching. Basically, the concept says, students learn best

i) When the teacher can generate sufficient interest in the topic being studied.

ii) When the content is relevant.

iii) They feel they can master it.

iv) When they have the feeling that their effort has been well rewarded, and they have learnt something new and useful.

To begin with one might think, who has the time to do all this for each and every concept we are teaching but this is more a question of mind-set and incorporating these does not take more time or effort than what your normal preparation would. Once you start working on these lines, your strategies/examples, lecture style will automatically start incorporating these.

2. Flipped Classroom

Flipped classroom methodology mainly focuses on the inquiry-based learning with the access of vast web information. The flipped strategy is a blended strategy with the goal to enhance student engagement and to attain predefined outcomes.

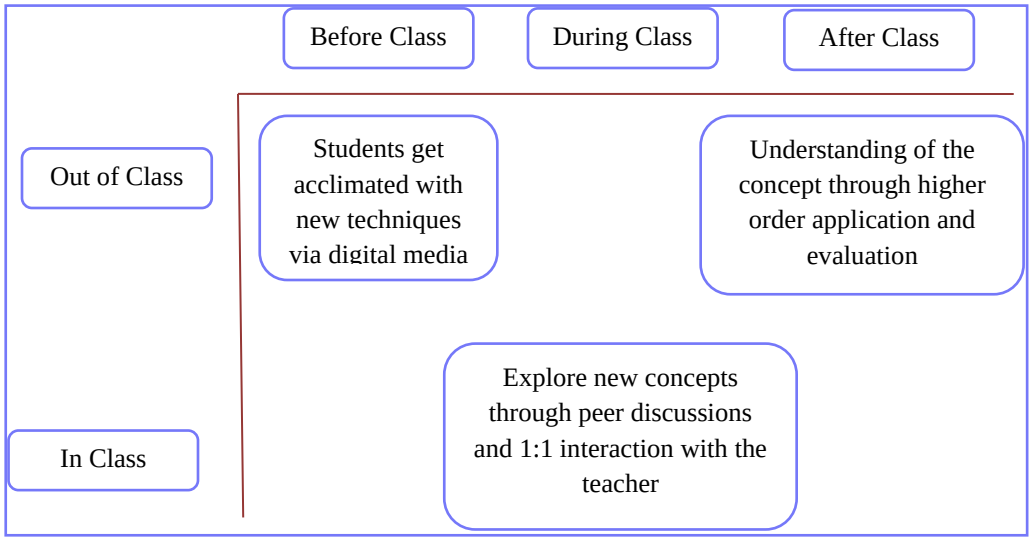


Figure 5.5.d: Implementation of flipped classroom strategy

This strategy includes three activities namely before, during and after class activities. Students get exposure to new technologies over digital media and the instructions given by the teacher over video lectures. During class, students interact with teacher and other students to explore new concepts. Based on the understandings, an assessment test may be conducted for the assessment.

Benefits of the Flipped classroom:

- More participation of students.
- Improved Faculty and Student interaction.
- Appropriate use of resources by the teacher for constructive learning methods.

Goals of the activity:

- Inspire students to learn the concepts thoroughly.
- To motivate students towards self-learning.
- To make use of visual learning.

Outcomes:

- Demonstrate points from a video than from a lecture notes.
- Build awareness and understanding of the course.
- Explain the java concepts especially the most basic and important aspects of the course.

Implementation: The implementation of a flipped classroom strategy for Java Programming course is presented below

Course : Java Programming

Class : II CSE, II SEM

Academic Year : 2017-18

Topic : Inheritance, types of inheritance

Activity Chosen : Flipped Classroom

Open source NPTEL video:

https://www.youtube.com/watch?v=rxsl1TzcEgg&list=PLbRMhDVUMngcx5xHChJ-f7ofxZI4JzuQR&index=14

Introduction Video: Inheritance in Java is a mechanism in which one object acquires all the properties and behaviours of a parent object. It is an important part of OOPs (Object Oriented programming system). The idea behind inheritance in Java is that you can create new classes that are built upon existing classes. When you inherit from an existing class, you can reuse methods and fields of the parent class. Moreover, you can add new methods and fields in your current class also. Inheritance represents the IS-A relationship which is also known as a parent-child relationship. A video is created by explaining the Inheritance and its types Concept –Single,

Multilevel, Hierarchical and Hybrid inheritance, specifying some sources of web and the procedure of this activity. https://sites.google.com/view/viewcse/home

Question Posed: Describe about Inheritance and explain the implementation of different types of inheritance?

Outcomes: At the end of this activity, student will be able to:

- Demonstrate the importance of Inheritance concept
- Write Java programs using different types of inheritance concepts.

Planning of activity:

Pre-Class Content: Provided web source to watch video, text books for reference and some web links in prior to all the learners. All the instructions were clearly described in video uploaded in course website.

- *Pre-Class Activity:* Students were instructed to write the assignments based on their understandings
- *In Class Activity:* Conducted Think Pair Share dynamic class activity in class to assess the outcomes.
- *Post Class activity:* As a post class activity, conducted a quiz.
- Assessed and evaluated each student at each stage.

Assessment:

S.No	Roll No	Name of the Student	Team No	Pre Class Activity-Assignment (10M)	In Class Activity-Think Pair Share (10M)	Post Class Activity-Quiz (10M)	Total (30M)

Significance of results & reflective critique:

- All the students paid more attention while explaining this activity, accessing the web source and all are actively participated in In-class activity
- The slow learners are also actively participated on par with bright students
- Traditional classroom was perfectly converted into student centric classroom.
- With the predefined evaluation process, all students actively participated in every stage (writing) of the activity.

3. JIGSAW (Collaborative Learning)**:**

Collaborative learning is a group activity that involves students working together to obtain solution to a problem. Collaborative learning is effective in teaching programming course. Hence Collaborative learning is introduced to learn Java Programming.

The basic process involves formation two student groups HOME (JIGSAW) groups and EXPERT groups. The group size would be at most 6. EXPERT group is formed with the leaders of JIGSAW group.

Course : Java Programming

Class : II B.Tech II Sem CSE A

Academic Year : 2017-18

Topic : Java Features

Activity Chosen : JIGSAW- Collaborative

Concept for activity:

1. C, C++, JAVA Differences
2. Object oriented principles.
3. JAVA Features (Simple, Object-Oriented, Portable, Platform independent, Secured, Robust, Architecture neutral, Interpreted, High Performance, Multithreaded, Distributed, Dynamic).

Goals of this activity:

At the end of this activity, students will be able to:

1. Understand the differences among C, C++, JAVA Programming languages
2. Describe the object-oriented principles.
3. Explain various features of JAVA programming Language.

Outcome of the Activity:

- Builds self-esteem in students
- Increases student retention
- Enhances student satisfaction with the learning experience of JAVA
- Develops oral communication skills
- Develops social interaction skills

Strategy to create Home Groups:

1. The success of collaborative activity is based on how best we consider individual skill sets and mix them while team formation.
2. Before forming the balanced teams, we conduct a questionnaire to students to assess their learning styles.
    a) Sensing-intuitive - how information is perceived
    b) Visual-verbal - how information is presented
    c) Active-reflective - how information is processed
    d) Sequential-global - how the information is understood

The learning style of each student is classified with the help of the Felder and Silverman model. Students are categorized according to the Index of Learning Styles (ILS) questionnaire. This questionnaire categorized a student's preferred learning style along a sliding scale of four dimensions. To conduct the survey we used the following link:

http://www4.ncsu.edu/unity/lockers/users/f/felder/public/ILSpage.html

Time planned: Time required to execute the event is maximum 150 min (3 periods). including survey of student learning styles, JIGSAW and EXPERT group's formation, peer discussion, student evaluation.

Formation of HOME groups (Heterogeneous):

The study was carried out with 61 students on Java Programming course. The teams were formed with size of 5 members in each time and hence, we had total 12 teams for my class. Care is taken to match the group size to the assigned subtasks. At the end of the collaborative learning, students were graded individually and group wise.

Students are divided into heterogeneous HOME groups and subsequently regrouped into 10 homogeneous groups known as EXPERT groups.

The 12 HOME groups are identified with scientist's names like Albert Einstein, Isaac Newton, Stephen Hawking, Niels Bohr and etc. In each team, the group members are identified as A1, A2, A3, A4, A5, B1, B2, B3, B4, B5, etc.

The Strong Global Learners of each group A1, B1, C1, D1, etc are appointed as group leaders. The Table-5.5.6 shows the learning styles score and their member ID of individual student.

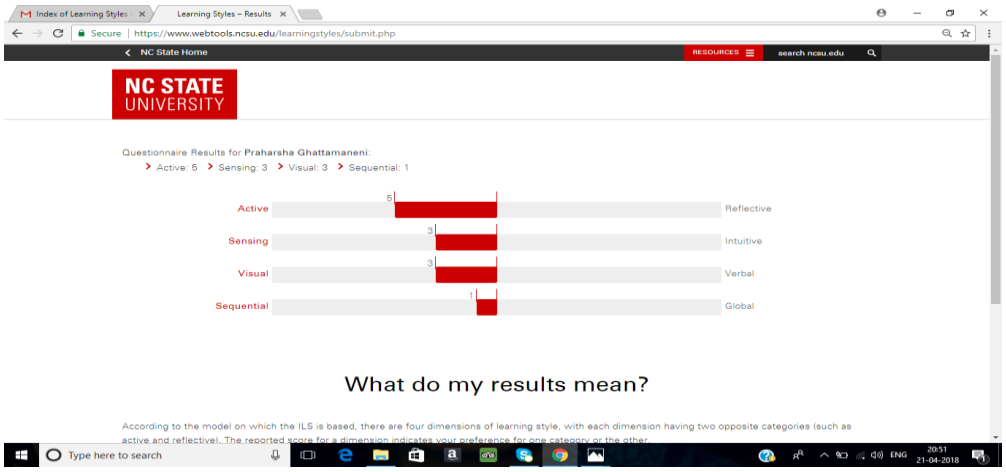


Figure 5.5.e: Felder- Silverman index of learning styles

Learning Styles	Number of students	Percentage of students (%)
Active	16	26.67
Reflective	3	5.00
Sensing	3	5.00
Intuitive	3	5.00
Visual	21	35.00
Verbal	2	3.33
Sequential	7	11.67
Global	6	10.00

Table 5.5.4: The student learning styles score

Implementation of Activity

Course : Java Programming

Class : II CSE, II SEM

Topic : Java Features

Activity Chosen : JIGSAW

1. C, C++, JAVA Differences
2. Object oriented principles.
3. JAVA Features (Simple, Object-Oriented, Portable, Platform independent, Secured, Robust, Architecture neutral, Interpreted, High Performance, Multithreaded, Distributed, Dynamic).

Group No.	JIGSAW Home Group	Student Roll No	Member ID	Student learning ability	Topic Assigned to group
1	Albert Einstein (A)	16NM1A0502	A1- Leader	Strong Global Learner	Simple
		16NM1A0501	A2	Strong Sequential Learner	

		16NM1A0523	A3	Strong Visual Learner	
		16NM1A0563	A4	Strong Active Learner	
		16NM1A0510	A5	Strong Reflective Learner	
2	Isaac Newton (B)	16NM1A0542	B1-Leader	Strong Global Learner	Object-Oriented
		16NM1A0505	B2	Strong Sequential Learner	
		16NM1A0524	B3	Strong Visual Learner	
		16NM1A0509	B4	Strong Active Learner	
		16NM1A0516	B5	Strong Reflective Learner	
3	Stephen Hawking (C)	16NM1A0550	C1-Leader	Strong Global Learner	Portable
		16NM1A0527	C2	Strong Sequential Learner	
		16NM1A0526	C3	Strong Visual Learner	
		16NM1A0514	C4	Strong Active Learner	
		16NM1A0543	C5	Strong Reflective Learner	
4	Niels Bohr (E)	16NM1A0551	D1-Leader	Strong Global Learner	Platform independent
		16NM1A0529	D2	Strong Sequential Learner	
		16NM1A0528	D3	Strong Visual Learner	
		16NM1A0515	D4	Strong Active Learner	
		16NM1A0513	D5	Strong Sensing Learner	
5	Faraday (F)	16NM1A0554	E1-Leader	Strong Global Learner	Secured
		16NM1A0530	E2	Strong Sequential Learner	
		16NM1A0531	E3	Strong Visual Learner	
		16NM1A0538	E4	Strong Active Learner	
		16NM1A0521	E5	Strong Sensing Learner	
6	Galileo (G)	16NM1A0559	F1-Leader	Strong Global Learner	Robust
		16NM1A0548	F2	Strong Sequential Learner	
		16NM1A0533	F3	Strong Visual Learner	
		16NM1A0547	F4	Strong Active Learner	
		16NM1A0537	F5	Strong Visual Learner	
7	Thomas Edison (H)	16NM1A0503	G1-Leader	Strong Active Learner	Architecture Neutral
		16NM1A0555	G2	Strong Sequential Learner	
		16NM1A0536	G3	Strong Visual Learner	
		16NM1A0552	G4	Strong Active Learner	
		16NM1A0541	G5	Strong Visual Learner	
8	Graham Bell (K)	16NM1A0512	H1-Leader	Strong Active Learner	Interpreted
		16NM1A0504	H2	Strong Visual Learner	
		16NM1A0508	H3	Strong Verbal Learner	
		16NM1A0556	H4	Strong Active Learner	
		16NM1A0544	H5	Strong Visual Learner	
9	Charles Darwin (I)	16NM1A0525	I1-Leader	Strong Active Learner	High Performance
		16NM1A0518	I2	Strong Visual Learner	
		16NM1A0549	I3	Strong Verbal Learner	
		16NM1A0506	I4	Strong Active Learner	
		16NM1A0545	I5	Strong Visual Learner	

10	Archimedes (J)	16NM1A0534	J1-Leader	Strong Active Learner	Multithreaded
		16NM1A0519	J2	Strong Visual Learner	
		16NM1A0517	J3	Strong Intuitive Learner	
		16NM1A0507	J4	Strong Active Learner	
		16NM1A0546	J5	Strong Visual Learner	
11	Rutherford (K)	16NM1A0539	K1-Leader	Strong Active Learner	Distributed
		16NM1A0520	K2	Strong Visual Learner	
		16NM1A0535	K3	Strong Intuitive Learner	
		16NM1A0561	K4	Strong Active Learner	
		16NM1A0557	K5	Strong Visual Learner	
12	James Maxwell (L)	16NM1A0562	L1-Leader	Strong Active Learner	Dynamic
		16NM1A0522	L2	Strong Visual Learner	
		16NM1A0553	L3	Strong Intuitive Learner	
		16NM1A0511	L4	Strong Active Learner	
		16NM1A0558	L5	Strong Visual Learner	
		16NM1A0560	L6	Strong Visual Learner	

Table 5.5.5: Formation of JIGSAW Home Groups (Heterogeneous Groups)

Formation of EXPERT groups (Homogeneous)

Students separated from their "HOME" groups and formed new group with the other students who are responsible for preparing the same topic. This group is called “EXPERT” group. These group members are responsible to make other students understand the topic. These groups by default becomes Homogeneous in their abilities. The group members make plans about how they can teach the subject content to their friends and prepare a report. Afterwards, they turn back to their respective "HOME" groups and share their acquired knowledge with colleagues with the help of the reports they have prepared. EXPERT groups are formed by picking one –one member from each HOME group. Expert group size is 6 and hence 10 groups are formed. EXPERT groups EG1, EG2, EG3, EG4, EG5, EG6, EG7, EG8, EG9 and EG10 are shown in Table 5.5.7.

Sl. No.	Expert Group Name	Expert Group Members
1	EG1	A1, B1, C1, D1, E1, F1: HOME Group Leaders
2	EG2	A2, B2, C2, D2, E2, F2: HOME groups members
3	EG3	A3, B3, C3, D3, E3, F3 - do-
4	EG4	A4, B4, C4, D4, E4, F4 - do-
5	EG5	A5, B5, C5, D5, E5, F5 - do-
6	EG6	G1, H1, I1, J1, K1, L1 : HOME Group Leaders
7	EG7	G2, H2, I2, J2, K2, L2 : HOME group members
8	EG8	G3, H3, I3, J3, K3, L3 - do-

9	EG9	G4, H4, I4, J4, K4, L4	- do-
10	EG10	G5, H5, I5, J5, K5, L5	- do-

Table 5.5.6: List of Expert Groups (Homogeneous) and their Team Members

Process of Evaluation:

Both Formative assessment and **Summative assessment** activities are used to judge final products for completion, competency and/or demonstrated improvement.

To evaluate the student two components are required namely Individual and group assessment. We conducted Individual quizzes and group quizzes for all the 10 batches.

Evaluation by the instructor provides students with feedback on the understanding of content, concepts, and applications. We have conducted quiz exams for individuals and for each group separately. The grades are shown in the given Table 5.5.8.

Significance of results & reflective critique:

At the end of activity, we asked the students to give their opinion about this activity. Students gave different kinds of answers saying that it is good, OK. But batch 3 & 4 team leaders they fully involved and enjoyed the activity. They reported that this activity is excellent, and we learnt a lot on our own. The students are posed three poll questions to students in order to determine their positive and negative views on cooperative learning environment and JIGSAW technique;

Question 1

What can you say about the aspects of JIGSAW practices which have positive effects on you?

Student responses: Out of 61 students great many reported that ‘JIGSAW technique was very 'Instructive’, ‘Created interest on the subject’, ‘responded positively ', affected the interaction and cooperation in the classroom’, and it was 'enjoyable’

Instructive: 35

Created interest on the subject: 52

Positive response: 54

Enjoyable: 48

Good interaction and Cooperation in class: 42

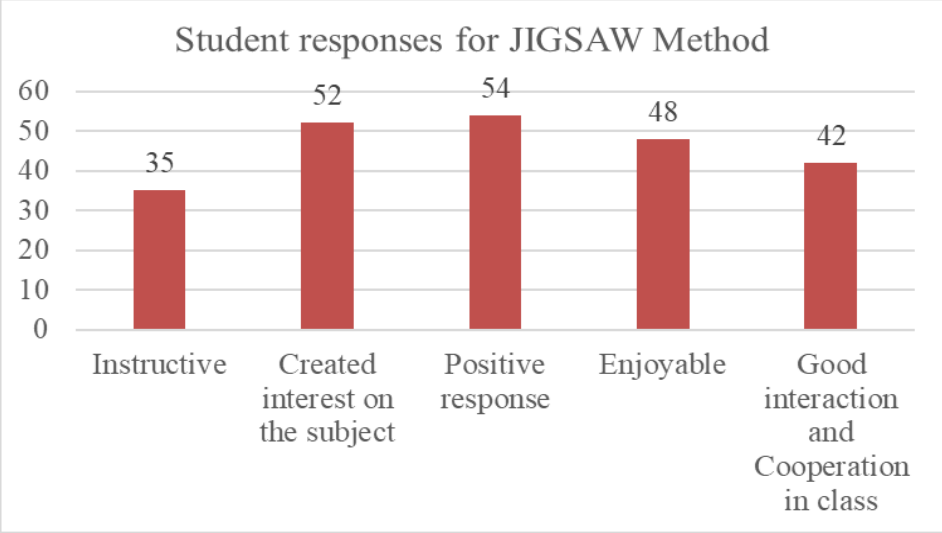


Figure 5.5.f: Student responses for JIGSAW method

Question 2

What can you say about the sides of the JIGSAW technique with negative effects in your opinion?

Student responses: Few students reported that JIGSAW technique was 'time-consuming', “Their friends with low achievement made them tired” and “The noise occurred during group works was disturbing”. Besides, 2 - 3 students expressed that it would be more effective if the topic was taught by the teacher instead of using this method.

After considering their feelings, we noticed that they are slow learners in my class and their native language is Telugu (a local language)

Question 3

What are the changes you have observed after application of this technique?

Most students reported that this technique enhanced our learning capacity’, ‘it increased our self-confidence’, ‘provided peer interaction and cooperation’, ‘and they felt that we were more ‘active’, ‘learned a lot on our own’.

Team No	JIGSAW Team	Home Group Member ID	Formative Assessment		Summative Assessment		Final Score (50M)	Median :45
			Individual Observation (10M)	Group Observation (10M)	Individual Quiz (15M)	Group Quiz (15M)		Performed less than Median Score (Yes/No)
1	Albert Einstein (A)	A1- Leader	10	10	14	13	47	NO
		A2	8		14		44	NO
		A3	9		13		45	NO
		A4	8		15		46	NO
		A5	10		12		45	NO
2	Isaac Newton (B)	B1-Leader	10	8	15	15	48	NO
		B2	9		12		44	YES
		B3	8		13		44	YES
		B4	7		14		44	YES
		B5	6		13		42	YES
3	Stephen Hawking (C)	C1-Leader	9	9	15	14	47	NO
		C2	7		12		42	YES
		C3	9		14		46	NO
		C4	10		13		46	NO
		C5	8		15		46	NO
4	Niels Bohr (D)	D1	10	10	15	13	48	NO
		D2	9		14		46	NO
		D3	8		15		46	NO
		D4	10		14		47	NO
		D5	10		15		48	NO
5	Faraday (E)	E1-Leader	10	9	15	12	46	NO
		E2	8		14		43	YES
		E3	9		13		43	YES
		E4	9		12		42	YES
		E5	8		14		43	YES
6	Galileo (F)	F1-Leader	9	9	15	15	48	NO
		F2	8		14		46	NO
		F3	7		13		44	YES
		F4	9		15		48	NO
		F5	10		12		46	NO
7	Thomas Edison (G)	G1-Leader	10	8	14	14	46	NO
		G2	9		13		44	YES
		G3	7		12		41	YES
		G4	8		13		43	YES

		G5	9		15		46	NO
8	Graham Bell (H)	H1-Leader	10	8	14	13	45	NO
		H2	8		15		44	YES
		H3	9		13		43	YES
		H4	7		14		42	YES
		H5	6		12		39	YES
9	Charles Darwin (I)	I1-Leader	8	10	14	12	44	YES
		I2	9		15		46	NO
		I3	10		13		45	NO
		I4	9		12		43	YES
		I5	8		11		41	YES
10	Archimedes (J)	J1-Leader	8	10	12	15	45	NO
		J2	9		15		49	NO
		J3	10		14		49	NO
		J4	9		13		47	NO
		J5	7		14		46	NO
11	Rutherford (K)	K1-Leader	9	8	12	14	43	YES
		K2	8		15		45	NO
		K3	10		13		45	NO
		K4	9		14		45	NO
		K5	6		13		41	YES
12	James Maxwell (L)	L1-Leader	10	9	12	14	45	NO
		L2	8		13		44	YES
		L3	9		14		46	NO
		L4	7		15		45	NO
		L5	6		14		43	YES

Table 5.5.7: Assessment sheet for JIGSAW activity

4. Student Teams Achievement Division (STAD)

In Student Teams-Achievement Divisions (STAD), students are assigned to four-member learning teams that are mixed in performance level and ethnicity. The teacher presents a lesson, and then students work within their teams to make sure that all team members have mastered the lesson.

Goals of the strategy:

- Students work together in achieving its objectives by upholding the norms of the group.
- Actively assist and motivate students to succeed shared passion.
- Active role as a peer tutor to further enhance the success of the group.
- Interaction among students with increasing their ability to argue.

Outcomes:

- Demonstrate pros and cons of collaborating activity
- Develop individual and team work to solve given task in creating packages in java
- Apply their own ideas and thoughts during team discussion during deadlock

Implementation:

The STAD activity implemented for

Course : Java Programming
Class : II CSE C, II SEM
Academic Year : 2017-18
Topic : Applet life cycle
Activity Chosen : Student Teams Achievement Division (STAD) - Collaborative

- Interaction session to present the content
- Make teams based on one criteria
- Teams work together to solve the given task
- Educator conducts individual quiz and team quiz
- Determine team average and each peer improvement scores

Time schedule:

- Interaction session by educator : 50 min (1 session)
- Making Teams, Sources of information : 50 min (1 session)
- Activity (3 sessions)

Collaborative learning- (Characteristics of radio receivers)	: 50 min (1 session)
Individual Quiz	: 50 min (1 session)
Group Quiz	: 50 min (1 session)
Total sessions	: 05

Initially, As an Instructor provides brief idea about the STAD activity to achieve better results. One session of 50 min was allocated for this interaction session. The outcomes of the activity will be communicated to all the students clearly. Along with the activity, the basics involved in the tasks assigned were also discussed as per the following schedule.

- The importance of Applets : 10 min
- Applet structure : 10 min
- Applet life cycle : 10 min
- Awareness about the STAD activity : 10 min
- The objectives of the activity : 10 min

Assessment

S. No	Team ID	Member ID	Roll No	Individual (W1: 1)		Collective (W2:3)		Score	Median Sore (25.5)	Important reason for team result
				Formative-Observation (A: 3 M)	Summative-Individual Quiz (B: 3 M)	Formative – Observation (C: 3M)	Summative – Group Quiz (D: 5M)	W1A+W1B + W2C+W2D (30 M)	Is less than Median Score	

Significance of results & reflective critique:

1. Students actively participated in developing applets in java.
2. Communication skills are improved
3. Some students' confidence level while sharing the information about the java programming in the class is improved.

5. Think Pair Share Activity (TPS)

Think-Pair-Share (TPS) is a collaborative learning strategy where students work together to solve problems or answer a question about assigned reading. This technique requires students to think individually about the topic or answer a question; and share ideas with colleague students. Discussing responses with peers serves to maximize participation, direct attention, and engage students in reading comprehension. The three phases in TPS are structured as

Think - the instructor poses a question to which students individually write their answers,

Pair - students work on a well-defined task with their neighbor(s), and

Share - students engage in a class-wide discussion, sharing their answers and reasoning, and debating alternate solutions.

Goals of the Think Pair Share:

- To activate student's prior knowledge
- To Enhances oral communication skills
- To make students active learners

Outcomes:

- Identify various feasible solutions for the given problem
- Summarize the concepts learnt from digital media
- Demonstrate the findings effectively with other peers and criticize the others conclusions.

Implementation: The implementation of a Think Pair Strategy

Course : Java Programming

Class : II CSE A, II SEM

Academic Year : 2017-18

Topic : Reading data from files and writing data to files

Activity Chosen : Think Pair Share - Collaborative

Think phase: The instructor posed a question, such as "Write a Program to Reading data from files and writing data to files in java". The students worked individually on the task, for about ten minutes.

Pair phase: The instructor gave a task related to the Think phase, such as check your neighbor's solution, or work with your neighbour to write the detailed code for the given problem. The students worked with one of their neighbours to complete the task, in five to ten minutes. The instructor walked along the aisles, encouraging discussion and answering queries.

Share phase. The instructor facilitated a class-wide discussion related to the tasks in the Think and Pair phases. Students' responses in the Think and Pair phases formed an important part of the discussion in this phase.

Assessment

The students took a survey about their class participation and confidence at the beginning and at the end of the activity. The consolidated survey report is as shown below.

S. No	Description	Pre activity survey						Post activity survey					
		Strongly Disagree	Disagree	Slightly Disagree	Slightly Agree	Agree	Strongly Agree	Strongly Disagree	Disagree	Slightly Disagree	Slightly Agree	Agree	Strongly Agree
1	I enjoy sharing my thoughts and observations during Java programming class discussion	12	16	14	13	5	1	5	8	9	15	14	10
2	I feel confident in my abilities in Java programming	4	6	22	22	4	3	3	4	17	16	10	11
3	I feel confident in my ability to contribute to concept discussion in class	4	13	12	12	16	4	2	6	11	14	16	12
4	I often participate in class discussion in Java programming class	2	5	11	13	25	5	0	6	8	13	19	15
5	I am comfortable in contributing to class discussion in Java programming class	5	6	18	16	12	4	3	5	8	18	16	11

Table 5.5.8: Survey report for Think Pair Share Activity

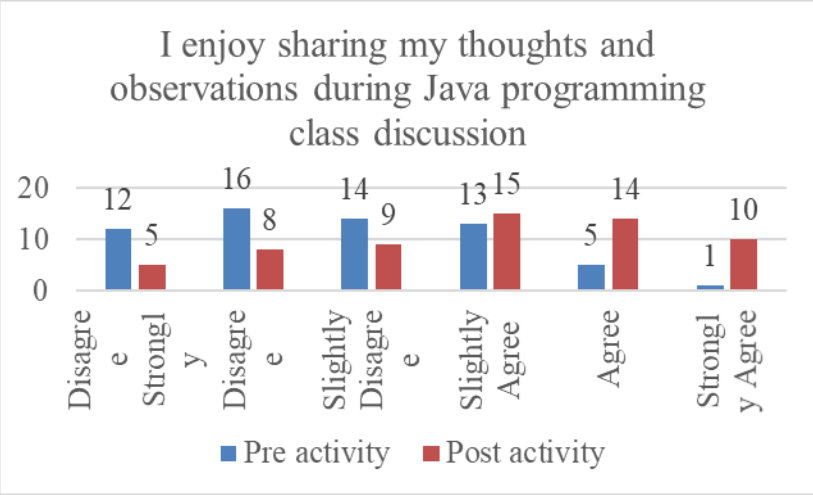


Figure 5.5.g: Survey parameter 1

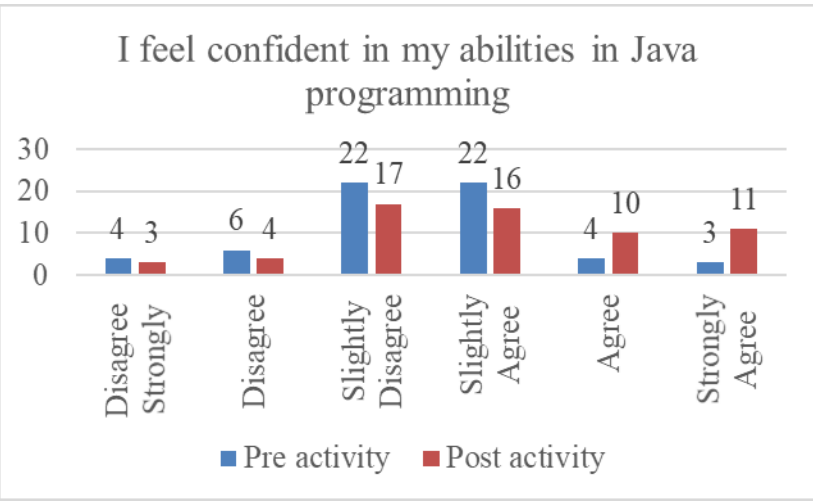


Figure 5.5.i: Survey parameter 2

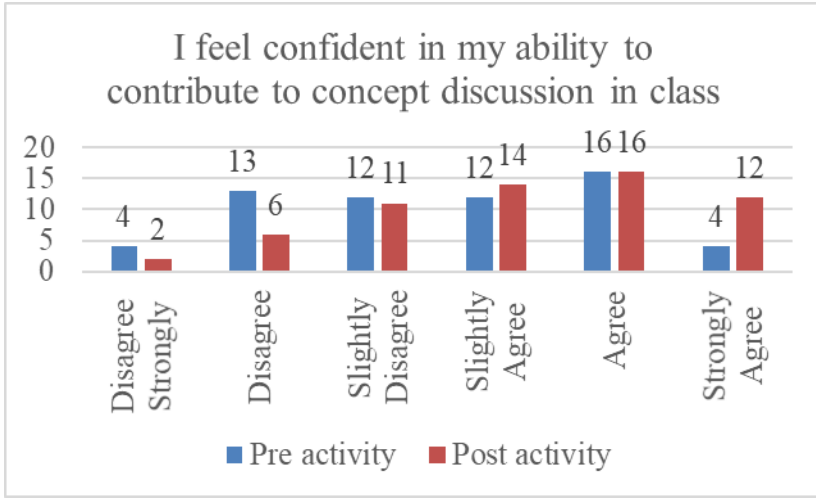


Figure 5.5.h: Survey parameter 3

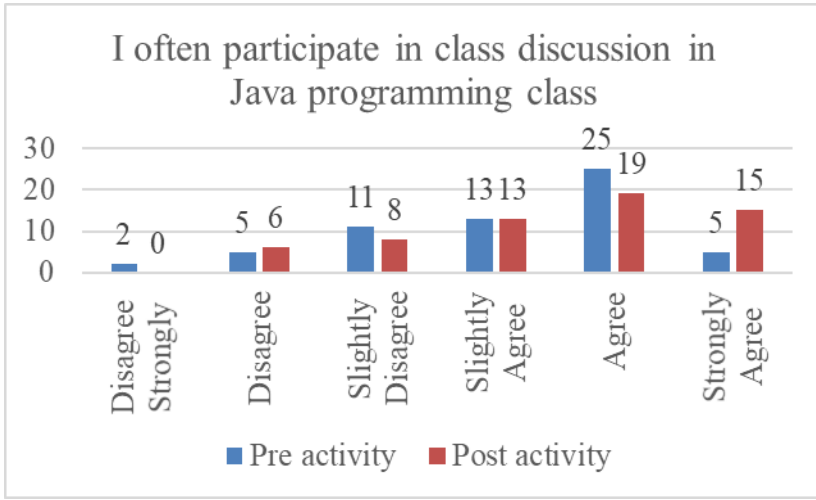


Figure 5.5.j: Survey parameter 4

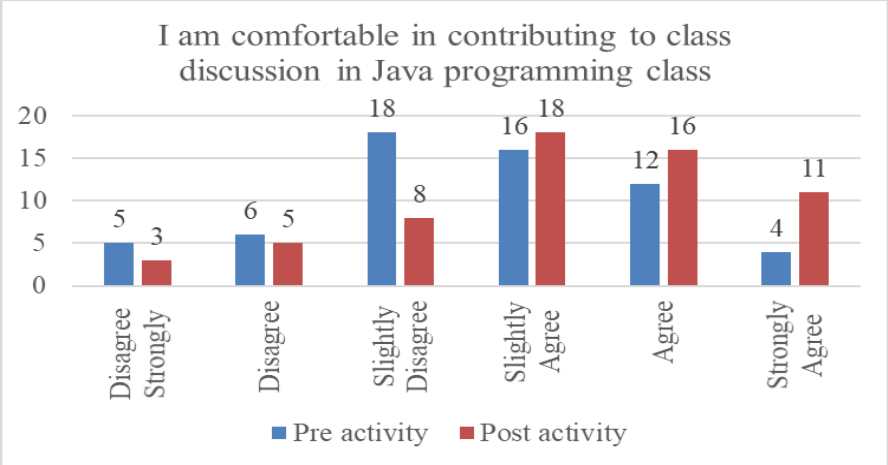


Figure 5.5.k: Survey Parameter 4

Based on the survey report obtained for pre activity and post activity, the comparison of each parameter is shown in Figures 5.5f –5.5k.

Significance of results & reflective critique:

1. The number if students who enjoyed the class is increased
2. Most of the students agreed that they are confident in contributing for the class room discussion
3. Students learning ability increased
4. Students shown interest to participate in classroom discussion often
5. Students felt comfortable during classroom activities

6. Open Book Examination (OBE)

An "Open Book Examination" is that in which students are allowed to refer to class notes and summaries, textbooks, or other approved material while answering questions. Open book examination creates an enriched environment, offering the opportunity to better understanding

2nd B.Tech (2016 admitted batch) students were assessed for Closed Book Sitting and Open Book Sitting for the course ***Java Programming***. The test population consists of 61 students from II Year, semester II.

Assessment Method:

The assessment method used for the proposed study consist of on-line multiple choice questions, comprising 50 questions. Test questions are set in concurrence with Blooms Taxonomy levels. The test was administered under similar conditions for Closed Book Examination (CBE) and Open Book Examination (OBE).

The students first completed the assessment in closed book sitting, and then approximately one week later, completed the same assignment in the open book sitting. A time limit of 60 minutes was set for students, with in which they were expected to complete the test. After the first test the students were told that they would be asked the same set of questions, with full access to any books they may require.

Test results of both the examinations were collected and statistical analysis is performed. The analyzed data is given below

	Closed Book	Open Book
Minimum mark	22	30
Maximum Mark	47	48
Mean value	33.18	39.85
Standard Deviation	5.58	5.91
No. of students completed test	62	62

Table: 5.5.9 Open book and closed book analyzed data

Closed Book analysis:

The minimum and maximum scores for the closed book sitting were 44% and 94% respectively, with a mean of 66.36%

Open Book Sitting

The minimum and maximum scores for the closed book sitting were 60% and 96% respectively, with a mean of 79.70%. There is an increase of 13.34% mean value and standard deviation of both methods is almost same.

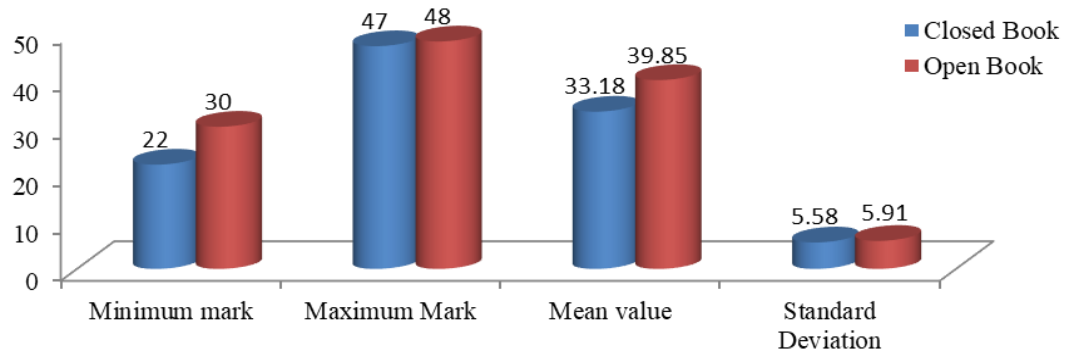


Figure 5.5.l: Comparison of marks of all students who completed the assessments both OBE and CBE

Time limit:

The time taken by students to complete the open book assessment, over and above the time limit of 60 minutes was recorded. However, we allowed some students to continue examination beyond time limit also. 54 students completed the test within the time limit, while 8 students required additional time to complete the assessment.

	Completed in < 60 min	Completed in > 60 min	
	Marks	Marks	Extra time in min
Minimum Mark	29	30	5
Maximum mark	48	42	14
Mean Value	40.38	35.63	9.13
Standard deviation	5.91	4.10	2.85
No, of students completed test	54	8	8

Table 5.5.10 The influence of time on students marks in the open book sitting

Students completed in < 60 min:

The minimum and maximum scores for the closed book sitting were 58% and 98% respectively, with a mean of 80.76%

Students exceeded 60 min:

The minimum and maximum scores for the closed book sitting were 60% and 84% respectively, with a mean of 71.26%

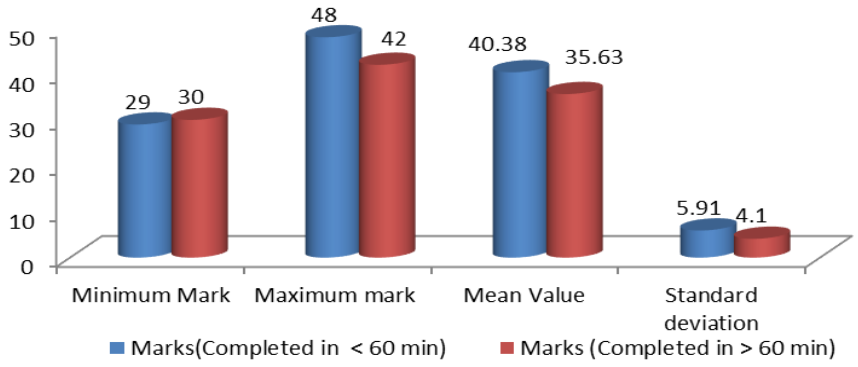


Figure 5.5.m: Comparison of open book sitting marks of students who completed in < 60 min time and > 60 min.

Significance of results & reflective critique:

- There is a significant improvement in minimum mark and mean value Open book Examination. The increase of 13.34% in mean for open book test shows that the average mark of most of the students is increased, which it indicates that there is an improvement in students' performance in OBE sitting when considered average marks..
- However, the data reveals that there is not much improvement in the marks of weaker students in OBE sitting.

- The maximum mark in OBE and CBE sittings is almost same and only one mark difference (48 and 47 marks respectively) for intelligent student whether it is open book or closed book examination is immaterial.
- It is also interesting to note that students spending more than 60 minutes did not show any significant improvement in their marks.
- There not much deviations in standard deviation in all the 4 cases.

7. Technology Enabled Learning

21st century revolution in the ICT obliges the teachers and students to keep themselves abreast of the-state-of-the-art of technological development. The deployment of them in teaching-learning process is imperative, since the technology is embedded in almost all walks of our life. ICT encapsulates IT and other media such as audio, video, pictures, animation, graphics, internet and other software packages. The use of technology to teach students has gained attention in recent past. The process of dissemination of information and elicit response from students is a huge task. We adopted the following three technologies used to teach students.

MOODLES:

- We organize all the material and syllabi of the course, assignments, readings and online quizzes etc.
- Outcome: Material is easily accessible to all the students and it reaches to all the students including absentees.

GOOGLE APPS:

- Sharing lecture notes and PPT through Google drive
- Outcome: It is a collaborative platform for students in which students and instructors share their material online.

CLIQUERS AND SMART PHONES:

- Provides easy way to serve the students during the class. It is a good method for instant polling, which can quickly assess student understandings and helps instructors to change teaching modalities.

ICT Technology Classroom:

- ICTs are making dynamic changes in society. They are influencing all aspects of our life. Because ICTs provide both students and teachers with more opportunities in

adapting learning and teaching to individual needs, society is forcing schools aptly respond to this technical innovation

- Offer the opportunity for more students-centered teaching, provide greater opportunity for teacher-to-teacher and student-to-student communication and collaboration.
- Give greater exposure to vocational and workforce skills for students, provide opportunities for multiple technologies delivered by teachers,

Dissemination of Content through Course Websites*:*

The faculty members are self-motivated to create course websites to make available of the course content like syllabus, course delivery plan, lecture notes of all units and previous question papers. This facility helps the students to learn more in less time. As an educator we need to be very particular in inducting content to the learners in short span of time.

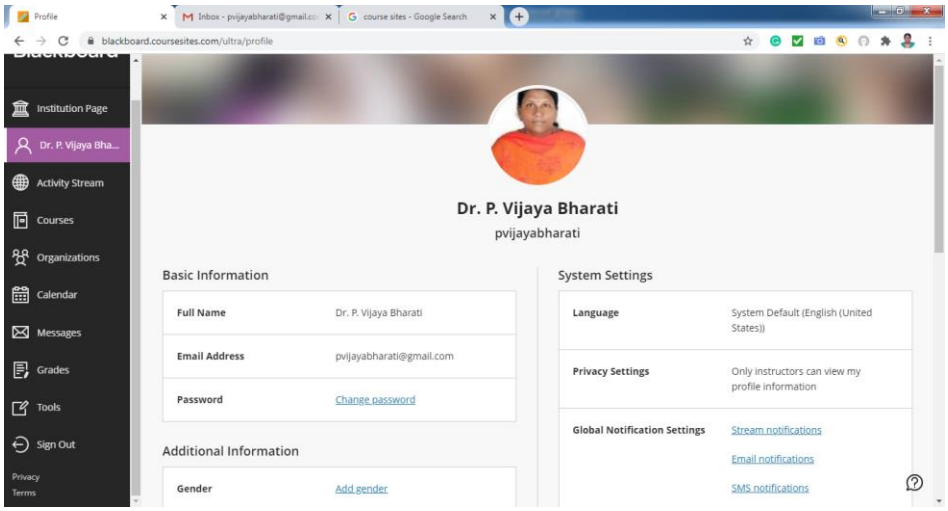


Figure 5.5.n: Course website https://blackboard.coursesites.com/ultra/profile

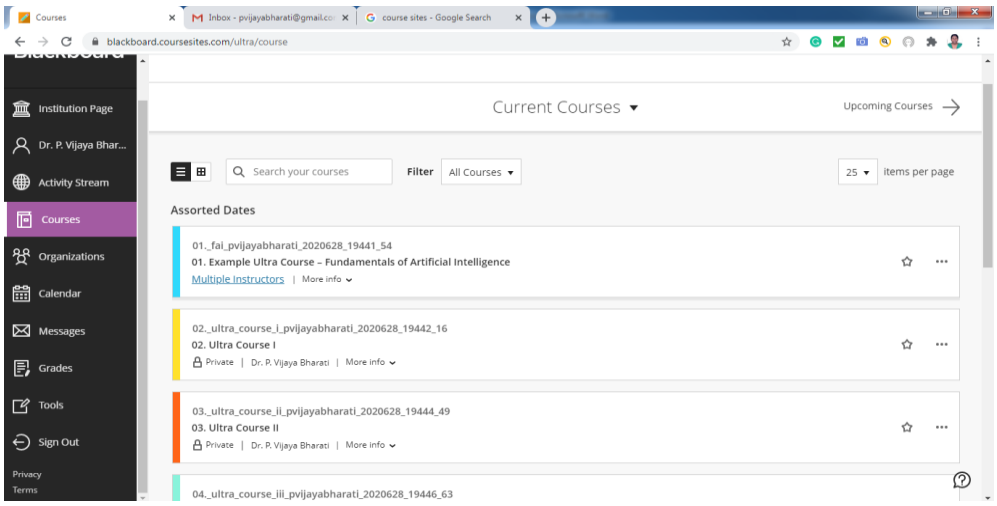


Figure 5.5.o: Available of course content in course website

The Department of CSE also hosts a websitehttps://sites.google.com/view/viewcse/ in which the data related to all courses of all semesters is maintained. It has syllabus, Lecture plans, Unit materials, Assignment questions, Mid question papers after the exam, University previous question papers and end results. All the students from department of CSE can access it.

Use of Learning Management Tools

A massive open online course (MOOC) courses aims at providing high quality study materials to student/faculty community worldwide. The MOOC courses offered by Coursera, edX , NPTEL are of high standards. The students are clustered in a group based on their MOOC course interest and the provider. Students are encouraged to complete a MOOC certification to acquire in depth knowledge. The response of students to MOOC course was minimal.

The Department of CSE uses LMS tools such as Canvas, MOOCs, Moodles, Virtual Labs etc., to make the students submit their assignments, learn online and implement the experiments to gain knowledge about the concepts learnt in the class. Recently, Google Classroom, Webex, etc. have been utilized by the faculty to teach the courses

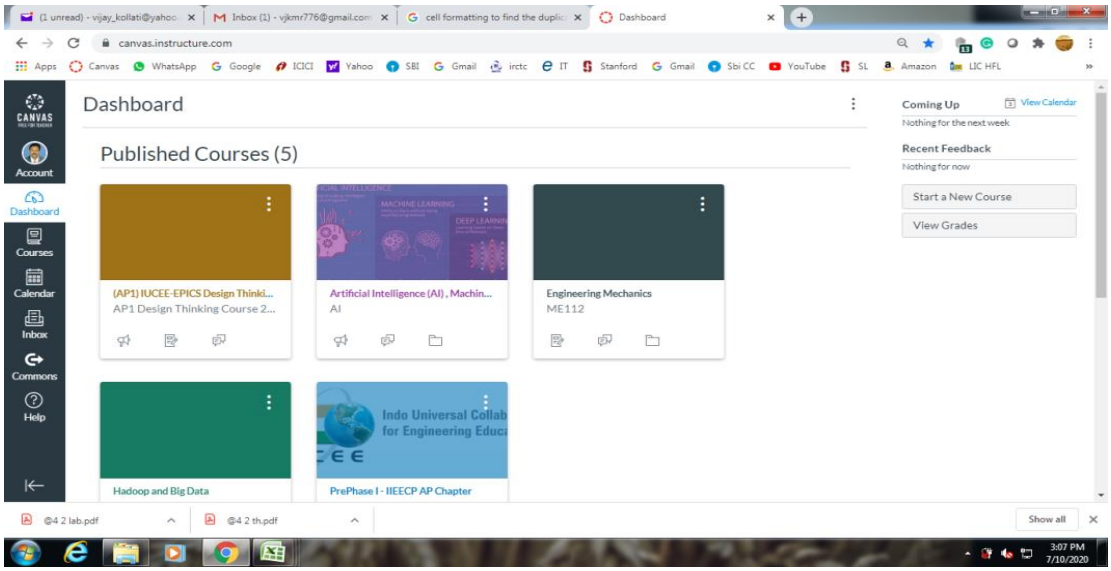


Figure 5.5.p: Content delivery using canvas LMS tool

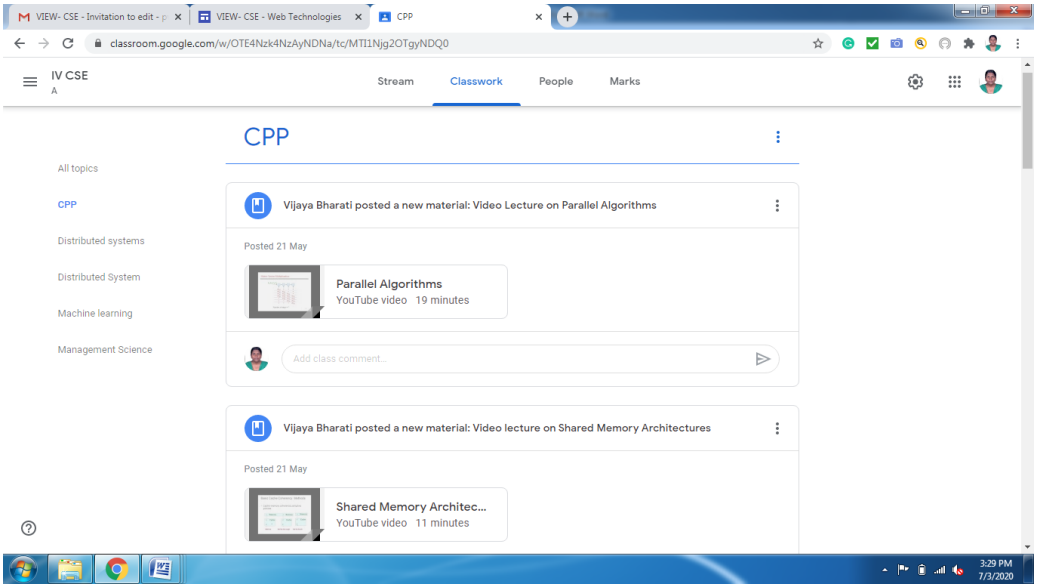


Figure 5.5.q: Content delivery using Google classroom

Technology enabled learning was evaluated by asking assignments and quizzes from MOOC materials. Furthermore, extra credits were given to students who completed MOOC courses with good grades. Google classroom service offered by Google is effective in achieving technology enabled learning. Google Classroom combines the services offered by Google Drive for storage, Google Docs, Sheets and Slides for writing, Gmail for electronic mail and Google Calendar for maintaining deadlines. An exclusive folder is created for each class in the corresponding user's Drive, where the student can submit their work for teacher's grading. Sharing of files, conducting assignments quizzes, grading/commenting assignments with respect to prompt submission and content becomes easy with Google classroom. Mobile version of Google classroom helps in quick access. Teachers can monitor student's progress and can assign grades and provide comments for the assignments.

Significance of results & reflective critique:

- Offer the opportunity for more students-centered teaching,
- Provide greater opportunity for teacher-to-teacher and student-to-student communication and collaboration,
- Give greater exposure to vocational and workforce skills for students,
- Provide opportunities for multiple technologies delivered by teachers,
- Create greater enthusiasm for learning amongst students,
- Provide teachers with new sources of information and knowledge,
- Prepare learners for the real world,
- Provide distance learners country-wide with online educational materials
- Provide learners with additional resources to assist resource-based learning.

Furthermore, the document states ICTs to cover all the technologies used for holding and communicating information and their use specifically in education with overall policy goals of:

II. Instructional methods assessment and their Evaluation

The Innovative Teaching Learning strategies implemented for the course "Java Programming" is presented here to study their impact. This course consists of six Course Outcomes (COs) as shown in Table 5.5.12.

Course Name: **Java Programming**; Year of Study: **2017-18**; Year/Sem: **II/II**	
CO1	Generalize the various concepts and principles of structured and object-oriented programming languages (K2).
CO2	Construct the classes, objects and constructors in java (K3)
CO3	Apply object-oriented constructs and exception handling in JAVA applications (K3)
CO4	Discuss multi-threading concepts and file accessing mechanisms in JAVA (K3).
CO5	Make use of applets and write sample programs with event handling in JAVA. (K3).
CO6	Develop interfaces using AWT and handle different kind of events. (K3)

Table 5.5.11: Course Outcomes for Signals & Systems

For the attainment of each course outcome, one teaching learning strategy is implemented along with the regular aids as shown in below Table 5.5.13.

Course outcome	Innovative Teaching strategy
CO1	JIGSAW (Collaborative)
CO2	Conventional Teaching
CO3	Flipped Classroom
CO4	Think Pair Share (TPS)
CO5	STAD (Collaborative)
CO6	Technology Enabled Learning

Table 5.5.12: Innovative practices and their CO mapping

All the students exercise Felder-Silverman questionnaire to know their learning style. The following table shows distribution of students for each learning style. The course considered for the analysis is taught for II CSE-II Sem, A- Section of strength 61 students

Learning Styles	Number of students	Percentage of students (%)
Active	16	26.67
Reflective	3	5.00
Sensing	3	5.00
Intuitive	3	5.00

Visual	21	35.00
Verbal	2	3.33
Sequential	7	11.67
Global	6	10.00

Table5.5.13: Percentage of student distribution based on their learning styles

Course end survey (student feedback) is collected based on the parameters listed in the Table 5.5.15 in a 3-point scale (Good-3M; Satisfactory-2M; Avergage-1M). The identity of the students was not revealed to the teacher, so that students are independent to express their opinions on the teaching learning process

Feedback Questions	Average Mark
Satisfaction of syllabus coverage (3)	2.70
Technical Knowledge of the Teacher (3)	2.64
Audibility and Interaction with students (3)	2.58
Achievement of COs defined (3)	2.76
Understanding of the course (On average) (3)	2.40
Effectiveness of lecture delivery – Flipped classroom/JIGSAW/STAD/TPS (3)	2.76
Efficiency of assessment methods (3)	2.64
Overall Average Mark	2.64
Percentage	88%

Table 5.5.14: Consolidated report of course end survey

From the feedback scores obtained course end survey in Table 5.5.15, it is evident that students expressed high degree of satisfaction for the parameter “Effectiveness of lecture delivery -Flipped classroom/JIGSAW/STAD/TPS” with a score of 2.76. This parameter is directly correlated to the innovations employed in teaching learning paradigm

The process of Course attainment consists of direct attainment (80%) and indirect attainment (20%). Direct attainment is evaluated from mid examination marks (30 Marks). The mid examination marks comprise of descriptive exam (15 Marks), objective exam (10 Marks) and assignment (5 marks). First mid examination covers three COs: CO1, CO2 & CO3 and Second mid examination covers remaining three COs: CO4, CO5 & CO6. Each CO is evaluated for 10 Marks. The analysis of teaching learning methodologies is presented in Table 5.5.16.

Course Outcome	Innovative Practice	Learning Style	Number of students	Students with attainment above 60%	Percentage of students with attainment above 60%
CO1	JIGSAW (Collaborative)	Active	16	11	68.75
		Reflective	3	2	66.67
		Sensing	3	2	66.67
		Intuitive	3	3	100.00
		Visual	21	16	76.19
		Verbal	2	2	100.00
		Sequential	7	5	71.43
		Global	6	3	50.00
CO2	Conventional Teaching	Active	16	13	81.25
		Reflective	3	2	66.67
		Sensing	3	1	33.33
		Intuitive	3	1	33.33
		Visual	21	14	66.67
		Verbal	2	1	50.00
		Sequential	7	4	57.14
		Global	6	4	66.67
CO3	Flipped Classroom	Active	16	9	56.25
		Reflective	3	2	66.67
		Sensing	3	2	66.67
		Intuitive	3	3	100.00
		Visual	21	10	47.62
		Verbal	2	2	100.00
		Sequential	7	5	71.43
		Global	6	5	83.33
CO4	Think Pair Share (TPS)	Active	16	13	81.25
		Reflective	3	1	33.33
		Sensing	3	3	100.00
		Intuitive	3	3	100.00
		Visual	21	15	71.43
		Verbal	2	2	100.00
		Sequential	7	4	57.14
		Global	6	4	66.67
CO5	STAD (Collaborative Strategy)	Active	16	14	87.50
		Reflective	3	2	66.67
		Sensing	3	1	33.33
		Intuitive	3	2	66.67
		Visual	21	18	85.71
		Verbal	2	1	50.00
		Sequential	7	4	57.14
		Global	6	5	83.33
CO6	Technology Enabled Learning	Active	16	14	87.50
		Reflective	3	3	100.00
		Sensing	3	3	100.00
		Intuitive	3	3	100.00

		Visual	21	18	85.71
		Verbal	2	2	100.00
		Sequential	7	5	71.43
		Global	6	4	66.67

Table 5.5.15: Analysis of course attainments for different learning strategies

From the Table 5.5.15, it is inferred that all students of learning styles Active/Reflective, Sensing/ Intuitive, Visual / Verbal, Sequential/ Global have shown better performance in all the innovative teaching strategies. Active learners performed well even in conventional teaching. Verbal and Sequential learners' performance is phenomenal in active learning strategies. Global learners especially preferred collaborative learning strategies compared to conventional and technology enabled learning.

From above Table, it is also clear that students performed high degree of performance in JIGSAW, STAD and Flipped Classroom learning strategies. Hence, the attainments of CO1, CO5 and CO3 are better than remaining COs.

From this analysis, we can conclude that innovative teaching learning strategies obviously improve the performance of students of all learning styles. The innovations by our faculty in Teaching Learning strategies are made available in institute website for transparency, peer review and critique. This practice will help to other scholars to reproduce and develop further.

For the academic year 2020-21, the following teaching

5.6. Faculty as participants in Faculty development/training activities/STTPs (15)

- *A Faculty scores maximum five points for participation*
- *Participation in 2 to 5 days Faculty development program: 3 Points*
- *Participation>5 days Faculty development program: 5 points*

S. No	Name of Faculty	Max 5 per Faculty			
		CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)	CAYm4 (2016-17)
1.	Dr B. Prasad	5	-	-	-
2.	Dr. K. Vijaya Kumar	5	5	5	3
3.	Dr. T. Madhusudhan Rao	5	-	5	-
4.	Dr. N. Tirupati Rao	5	-	5	5
5.	Dr G. Neelima	5	-	-	-
6.	Mrs. P. Vijaya Bharati	5	5	5	-
7.	Mr. S. Ram Prasad Reddy	-	5	5	-
8.	Mr. L. Bhupati Rao	-	3	5	3
9.	Mr. A.N Suresh	-	-	5	5
10.	Ms. T. Padmavathy	-	-	5	3
11.	Mrs. R. Pravallika	5	5	5	3
12.	Mr. G.Vinay Reddy	5	-	5	3

13.	Mrs. K. Madhuri	-	5	5	3
14.	Mr. P. Praveen Kumar	5	5	5	-
15.	Mr. B.Venkatesh	5	-	5	5
16.	Mrs. B. Madhavi	5	-	-	-
17.	Mr Ch. Sudhakar	5	-	-	-
18.	Mr S. Venkatesh	5	-	-	-
19.	Mr.Ch. V Bhikshapathi	-	5	5	-
20.	Mrs. G. Sandhya	5	3	5	-
21.	Mrs. J. Aruna Devi	5	-	5	-
22.	Mrs. Y. Vineela Sravya	5	5	5	5
23.	Mr. I. Raju	5	5	5	5
24. 5	Mr. V. Uma Shanker Rao	5	-	5	5
25.	Mrs. D. Kamal Kumari	5	5	5	-
26.	Mrs. M. Mamatha Laxmi	5	5	5	-
27.	Mr. N. K. Santosh	5	-	5	5
28.	Mr. B. A. Ganesh	-	5	5	-
29.	Mr. D. LovaRaju	-	-	5	-
30.	Ms. D. Chandrika	-	-	5	5
31.	Ms. K.Narasamma	-	-	-	-
32.	Mrs.Ch. Ramya	-	-	5	-
33.	Mrs. G. Pavani latha	5	5	5	-
34.	Mr. K. Mariya babu	5	-	5	-
35.	Mrs. N. Sowjanya Kumari	5	5	-	-
36.	Mr. T. Hari babu	5	5	5	-
37.	Mr. D. Rajendra Dev	5	5	-	-
38.	Mrs. K. Deepthi Krishna	5	-	-	-
39.	Mr. Ch. Sekhar	5	-	-	
40.	Mr. M. Srinivasa Rao	5	-	-	
41.	Mr. R. Ravi	5	5	-	-
42.	Mrs. V. Sree Lahari	5	-	3	-
43.	Ms. Rita Roy	5	-	-	-
44.	Mr. R. Ravi	5	-	-	-
45.	Mrs. J. Hima Bindhu	5	-	-	-
46.	Mrs. Sheik Rahamuinissa	5	-	-	-
47.	Ms. B Haritha Laxmi	5	-	-	-
48.	Mr. A. Maheswara Rao	5	-	-	-
TOTAL		185	91	148	58
RF= Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1		32.95	31.45	31.10	30.65
Assessment = 3*(sum/0.5RF) (Marks limited to 15)		33.69	17.36	28.55	11.35
Average assessment over three years (Marks limited to 15)			**19.09**		
		26.53			

Table B.5.6.a: Faculty participation in FDPs/STTPs

5.7 Research and Development (30)

5.7.1 Academic Research (10)

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

- *Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (6)*
- *Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (4)*

A. Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (6)

Research is the foundation for knowledge which makes possible with innovations and applications providing wider benefit. This also adds to the stock of global knowledge and is a source of new ideas, techniques, innovation, and methods, across a wide range of disciplinary areas. Faculty members at teaching intensive institutions can enhance learning experiences for students while benefiting from a productive research agenda.

Vignan's Institute of Engineering for Women (VIEW) encourages the students and faculties towards Research and Development activities by providing various benefits like financial support for doing PhD work , access to reputed National and International journals in digital library, provides academic leaves, education leave etc . The Management provides financial support like registration fee, accommodation, travel etc., for participating in Conferences, inter-institute events. In addition, the college is having R&D policy where the college management provides honorarium to faculties who published articles in reputed national and international SCIE/ESCI/SCI / Scopus journals.

	Scopus Indexed	UGC Indexed	Book Chapters	Total
CAY (2020-21)	10	42	-	52
CAYm1 (2019-20)	16	35	1	52
CAYm2 (2018-19)	04	04	-	08
CAYm3 (2017-18)	05	02	-	07
Total	35	83	1	119

Table B.5.7.1.a: List of Research Publications

List of paper publications in **Scopus journals** during the academic year 2020-21

S.No	Name of the Faculty	Publication Title	Journal title	ISSN	Volume & Issue	Month & year
1.	Dr.K.Vijaya Kumar Mr.Imandi Raju Mrs.R.Pravallika	Performance Evaluation of Machine learning Algorithms for disease prediction.	International Journal of Advanced Science and Technology	2005-4238	Volume 29 No. 7	June 2020
2.	Mr.V.Sita Rama Prasad	Data Analysis and Prediction of COVID-19 Using Machine Learning Models	International Journal of Advanced Science and Technology	4512-4518	Volume 29 Issue 7s	July 2020
3.	Ms.G.Sandhya Mrs.Sheik Rahamunnisa	Detect and Prevent the Credit Card Fraud Transaction using Face Recognition and Gray-Level Co-occurrence Matrices Algorithm	Journal of Critical Reviews	2394-5125	Volume 7 Issue 18	July 2020
4.	Mr. A.Maheswararao	Detection of Agro Based Products Quality Using Convolutional Neural Networks	Journal of Critical Review	2394-5125	Volume 7 Issue 10	July 2020
5.	Mrs.B.Haritha Lakshmi Mrs. J. HimaBindu	Performance Evalution of Traffic and Energy Aware Routing Protocol in Wireless Sensor Networks	Journal of Critical Reviews	2394-5125	Volume 7 Issue 18	July 2020
6.	Mrs.M.Mamatha Laxmi Mr.I.Raju Mrs.G.Pavani Latha Dr.K.Vijaya Kumar	Analysis of Student Academic Performance Leading Technology Using Classification Algorithms	Journal of Critical Reviews	2394-5125	Volume 7 Issue 19	August 2020
7.	Mrs.M.Mamatha laxmi Mrs.G.Pavani Latha Mr.R.Ravi Mrs.N.Sowjanya Kumari	MGLOEC and MGLIP Steganography Techniques for Hiding Message in Gray Image.	Journal of Critical Reviews	2394-5125	Volume 7 Issue 19	August 2020
8.	Mr. A.Maheswararao	Robust Detection of Video Text using an efficient hybrid method via key frame extraction and text localization	Multimedia tools and applications	1380-7501		Nov 2020
9.	Mr.R.Ravi, Dr.P.Vijaya Bharathi, Mrs.N.Sowjanya Kumari	Securing data and image using Mosaic and LSB Technique	Journal of Critical Reviews	2394-5125	Volume 7 Issue 18	Dec 2020
10.	Mrs.P.Akhila	An Exploration of Sentiment Analysis using Twitter Dataset	Psychology and Education	0033-3077	Volume 58 Issue 2	January 2021

Table: 5.7.1.b Research Publication in Scopus Journals in CAY (2020-21)

List of paper publications in **UGC journals** during the academic year 2020-21

S.No	Name of the Faculty	Publication Title	Journal title	ISSN	Volume & Issue	Month & year
1.	Dr P.Vijaya Bharati Mr.R.Ravi Mrs.N.Sowjanya Kumari	A Novel Implementation of Attribute based Encryption for Query Optimization in Big Data using Map Reduce	International Journal of Future Generation Communication and Networking	2233-7857	Volume 13 Issue 4	March 2021
2.	Dr.P.Vijaya Bharati	Covid-19 Epidemic Analysis Using Machine Learning	International journal of innovations in Engineering and Technology	2319-105	Volume 19 Issue 4	July 2021
3.	Ms.Y.Vineela Sravya	Elliptical Curve Cryptography for Data Confidentiality with Output Feedback Mode	Journal of Emerging Technologies and Innovative Research	2349-5162	Volume 8 Issue 7	July 2021
4.	Ms.G.Sandhya	Application for Generating Image Caption Using CNN model	Mukt Shabd Journal	2347-3150	Volume X Issue VII	July 2021
5.	Mrs.N.Sowjanya Kumari	Machine Learning Model for Prediction of Post Graduate Admissions	Journal of Emerging Technologies and Innovative Research	2349-5162	Volume 8 Issue 7	July 2021
6.	Mr.D.Rajendra Dev	An Expertise Machine Learning Model To Predict The Heart Failure In Patients	Juni Khyat	2278-4632	Volume 11 Issue 7	July 2021
7.	Ms.Rita Roy	Relative Envision To Prognosis The Rarest Parkinson's Disease Using Machine Learning Techniques	Juni Khyat	2278-4632	Volume 11 Issue 7	July 2021
8.	Mrs.Rahimunnisa Shaik	Calculate the Propinquity for Human Faces	Muki Shabd Journal	2347-3150	Volume X Issue VII	July 2021
9.	Mr A.Srinivas	Real-time Stress Detection using CNN	International Journal of Engineering Research in Computer Science and Engineering	2394-2320	Volume 8 Issue 7	July 2021
10.	Mrs.N.Suneetha	Loan Application Analysis Using Machine Learning	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
11.	Mrs.B.Sailaja	Near Lossless Medical Image Compression Using Block BWT-	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021

		MTF and Hybrid Fractal Compression Techniques				
12.	Mrs.N.Sowjanya Kumari	Fire and Smoke Recognition Using Deep Learning	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
13.	Mrs.V.Sreelahari	Image Haze Removal Using Dark Channel Prior	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
14.	Mrs.B.Haritha Lakshmi	Traffic Sign Recognition with R-CNN	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
15.	Mr.V.Sita Rama Prasad	Secure File Storage in Cloud using Hybrid cryptography	Juni khyat journal	2278-4632	Volume 11 Issue 7	July 2021
16.	Mr.A.Maheswararao	Marketing Channel Attribution with Markov Chains in Python	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
17.	Mrs.Sheik Rahimunnisa	Triple Level User Authentication with Confidentiality	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
18.	Mr.D.Rajendra Dev	Farmer Eco-Marketing System Using Blockchain Technology	Juni Khyat	2278-4632	Volume 11 Issue 7	July 2021
19.	Mr.V.Rama Rao	Location Based Routing for Ad hoc Mobile Networks	International Journal of All Research Education and Scientific Methods	2455-6211	Volume 9 Issue 7	July 2021
20.	Dr.P.Vijaya Bharati	Image Depixelizer	International journal of innovations in Engineering and Technology	2319-1058	Volume 19 Issue 4	July 2021
21.	Mrs.Ch.Usha	Image Caption Generator	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
22.	Mrs.V.Sreelahari	Accuracy Analysis using Machine Learning Classifier for Hardware Trojan Detection	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
23.	Mr.V.Rama Rao	Music Genre Classification Using Deep Learning	International Journal of All Research Education and Scientific Methods	2455-6211	Volume 9 Issue 7	July 2021
24.	Ms.M.Pallavi	Sentiment Analysis Using Deep Neural Network On Movie Reviews	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
25.	Mrs.J.Hima Bindhu	Helmet and License Plate Detection of Two Wheelers Using Open CV and YOLOV5	International Journal of Research and Analytical Reviews	2348-1269	Volume 8 Issue 3	July 2021

26.	Ms.Rita Roy	Social Distance Detection Using Deep Learning	Juni Khyat Journal	2278-4632	Volume 11 Issue 7	July 2021
27.	Mr.V.Sita Rama Prasad	Malaria Detection using Blood Smear Images	Juni Khyat Journal	2278-4632	Volume 11 Issue 7	July 2021
28.	Mrs.B.Sailaja	Stock Price Prediction Using Machine Learning using LSTM and Linear Regression	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 7	July 2021
29.	Ms.D.Ramya	Underwater Image Enhancement	International Journal of Research and Analytical Reviews	2348-1269	Volume 8 Issue 3	July 2021
30.	Ms.G.Sandhya	Design An Analysis of Resume Screening Using Natural Language Processing	Mukt Shabd Journal	2347-3150	Volume X Issue VII	July 2021
31.	Mr.A.Srinivas	Personality Prediction From Social Media Posts	International Journal of All Research Education and Scientific Methods	2455-6211	Volume 9 Issue 7	July 2021
32.	Ms.M.Pallavi	Android Malware Detection Using Machine Learning	International Journal of All Research Education and Scientific Methods	2455-6211	Volume 9,Issue 8	August 2021
33.	Mrs.N.Suneetha	Eye Gaze Tracking System	International Journal of All Research Education and Scientific Methods	2455-6211	Volume 9 Issue 8	August 2021
34.	Mrs.D.Kiranmayi	Copy Right Protection of Digital Images with Digital Watermark	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 8	August 2021
35.	Mr.L.Jagjeevan Rao	Glaucoma Detection Using Fundus Images Through Deep Learning	International Journal of All Research Education and Scientific Methods	2455-6211	Volume 9 Issue 8	August 2021
36.	Mr.R.Ravi	Authentication Of Credit Card Using Face Recognition	Mukt Shabd Journal	2347-3150	Volume XI Issue V	August 2021
37.	Mrs.J.Himabindhu	Signature Verification Using Image processing and Neural Network	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 8	August 2021
38.	Mr.L.Jagajeevan Rao	Automated Detection of covid-19 cases using Deep Neural Networks with X-Ray images	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 8	August 2021
39.	Mr.R.Ravi	Fake User Detection Using Machine Learning Techniques	Mukt Shabd Journal	2347-3150	Volume XI Issue V	August 2021

40.	Mr.M.Anil kumar	Image Steganography using Python	International Journal of Research and Analytical Reviews	2348-1269	Volume 8 Issue 4	August 2021
41.	Mrs.D.Kiranmayi	Credit Card Fraud Detection Using Machine Learning	International Journal of Creative Research Thoughts	2320-2882	Volume 9 Issue 8	August 2021
42.	Ms.Y.Vineela Sravya	Secure Data Transmission Using Hybrid Cryptography	Journal of Emerging Technologies and Innovative Research	2349-5162	Volume 8 Issue 8	August 2021

Table: 5.7.1.c Research Publication in UGC Journals in CAY (2020-21)

List of paper publications in **Scopus journals** during the academic year 2019-20

S.No	Name of the Faculty	Publication Title	Journal title	ISSN	Volume & Issue	Month & year
1	Ms.T.Padmavathy Mrs.M.Mamatha laxmi	Elliptical curve Cryptography with cuckoo search algorithm for internet of things Environments	International Journal of Engineering Research and Technology	2278-0181	Volume 8 Issue 7	July 2019
2	Dr.K.Vijaya Kumar	Text Mining with Apache Hadoop over different Hadoop Clusters Architectures.	International Journal of Recent Technology and Engineering	2277-3878	Volume 8 Issue 2	July 2019
3	Dr.K.Vijaya Kumar	Extended Optimization Procedures for Static List based Task Scheduling Algorithms for HeDCS	International Journal of Recent Technology and Engineering	2277-3879	Volume 8 Issue 2s11	September 2019
4	Mr.R.Ravi Ms.G.Sandhya	Apache Hadoop for processing image files using sequence file.	TEST, Engineering and Management	0193-4120	Volume 82 Issue 2	February 2020
5	Prof.A.Sesha Rao Mr.Imandi Raju Mr.L.Bhupathi Rao	Malicious E-Mail Detection using Artificial Neural Networks	TEST, Engineering and Management	0193-4120	Volume 83 Issue 3	February 2020
6	Dr.K.Vijaya Kumar	Transformation in the Teaching-Learning Process of Engineering Education.	TEST, Engineering and Management	0193 -4120	Volume 82 Issue 2	February 2020
7	Dr.K.Vijaya Kumar	A Classification Model using improved Hybrid Genetic Particle Swarm Optimization Algorithm based on Separability-Correlation Measure	TEST, Engineering and Management	0193 -4120	Volume 82 Issue 2	February 2020
8	Ms.G.Sandhya Mrs.G.Pavani Latha	Applicational Achievement of K - Means Algorithm among Apache Spark and Map Reduce	TEST Engineering and Management	0193 - 4120	Volume 82 Issue 2	February 2020

9	Dr.K.Vijaya Kumar	Diabetic Retinopathy Detection from Retinal Images using Machine Learning Techniques.	International Journal of Advanced Science and Technology	2005-4238	Volume 29 Issue 5	May 2020
10	Dr P.Vijaya Bharati Mr.R.Ravi Mrs.N.Sowjanya Kumari	A Novel Implementation of Attribute based Encryption for Query Optimization in Big Data using Map Reduce	International Journal of Future Generation Communication and Networking	2233-7857	Volume 13 Issue 4	March 2021
11	Ms.G.Sandhya Mrs.Rahimunnisa Shaik	A Novel Secure Strategy for Trap Testing in IoT Applications	TEST Engineering and Management	0193-4120	Volume 83	June 2020
12	Mrs.R.Pravallika Ms.Y.Vineela Sravya	Classification of Gender by Voice Recognition using Machine Learning Algorithms.	Journal of Critical Reviews	2394-5125	Volume 7 Issue 9	June 2020
13	Dr.K.Vijaya Kumar Ms.Y.Vineela Sravya Mrs.J.Hima Bindu	Phishing URLs Detection System using Lexical Feature Analysis.	International Journal of Advanced Science and Technology	2005-4238	Volume 29 No. 7	June 2020
14	Ms.Rita Roy Mr.D.Rajendra Dev	A Study of Artificial Emotional Intelligence for Human-Robot Interaction.	Journal of Critical Reviews	2394-5125	Volume 7 Issue 15	June 2020
15	Ms.Rita Roy Mr.D.Rajendra Dev Mr.V.Sita Rama Prasad	Socially Intelligent Robots: Evolution of Human-Computer Interaction	Journal of Critical Reviews	2394-5125	Volume 7 Issue 15	June 2020
16	Dr.P.Vijaya Bharati	An Approach for Securing the Data Storage in Cloud using Combined Predicate Based Encryption	International Journal of Advanced Science and Technology	2005-4238	Volume 29 No. 8	July 2020

Table: 5.7.1.d Research Publications in Scopus Journals in CAY m1(2019-20)

List of paper publications in **UGC journals** during the academic year 2019-20

S.No	Name of the Faculty	Publication Title	Journal title	ISSN	Volume & Issue	Month & year
1.	Ms.Rita Roy Mr.D.Rajendra Dev	Metamorphisis knowledge probing of guild data through chat bot using NLP	CIIT International journal of Data mining and knowledge engineering.	0974 – 9683	Volume 11 Issue 7	July 2019
2.	Ms.Rita Roy Mr.D.Rajendra Dev	Communication Technology for users with specific learning incapabilities.	CIIT International journal of Data mining and knowledge engineering.	975 – 9683	Volume 11 Issue 7	July 2019

3.	Ms.Rita Roy	Secure Key- Deduplication using Convergent Key Encryption	Parishodh Journal	2347-6648	Volume IX Issue III	March 2020
4.	Dr.P.Vijaya Bharati	Distributed Metadata Management for Large Storage Systems using Hierarchical Bloom Filter Arrays	Parishodh Journal	2347-6648	Volume IX Issue III	March 2020
5.	Mr. A.Maheswararao	Fake news detection and comparison using machine learning algorithms	International journal of Research and Analytical reviews	2349-5138	Volume 7 Issue 2	April 2020
6.	Mr.D.Rajendra Dev	Object Match Swapping Detection of Facial Landmarks Using Local-based Information	The International journal of analytical and experimental modal analysis	0886-9367	Volume XII Issue IV	April 2020
7.	Ms.G.Sandhya	Offline handwritten character recognition uisng neural Networks	Mukt Shabd Journal	2347-3150	Volume IX Issue IV	April 2020
8.	Ms.Rita Roy	Replenish security through CARP technology	The International journal of analytical and experimental modal analysis	0886-9367	Volume XII Issue IV	April 2020
9.	Mrs.G.Pavani Latha	Information Retrival on Document Streams using Relevance Feedback Algorithm	International Research Journal of Engineering and Technology	2395-0072	Volume 7 Issue 4	April 2020
10.	Mr.R.Ravi	Smart rendering news article reader	International Journal of Creative Research Thoughts	2320-2882	Volume 8 Issue 4	April 2020
11.	Mrs.M.Mamatha Laxmi	A Novel Stenographic technique to Embed SST Encrypted Message using PGLM.	Mukt Shabd Journal	2347-3150	Volume IX Issue V	May 2020
12.	Dr.P.Vijaya Bharati	An Efficient Transaction Memory Storage Management Model for Images	Mukt Shabd Journal	2347-3150	Volume IX Issue V	May 2020
13.	Ms.K.Deepthi Krishna	Attendance System Based on Face Recognition	Mukt Shabd Journal	2347-3150	Volume IX Issue V	May 2020
14.	Mrs.Sheik Rahimunnisa	Detection of Money Laundering in Online Social Networks	Mukt Shabd Journal	2347-3150	Volume IX Issue V	May 2020
15.	Mrs.M.Mamatha Laxmi	Hiding of Captcha in a Colour Image using FNP Algorithm	Mukt Shabd Journal	2347-3150	Volume IX Issue V	May 2020
16.	Mr.R.Ravi	Retrieval of Featured Images Using Face Detection	Mukt Shabd Journal	2347-3150	Volume IX Issue V	May 2020
17.	Ms.Rita Roy Mr.D.Rajendra Dev	Evolution of Human-Computer Interaction to Presume Human Disposition Feature in Human-Robot	Journal of Xidian University	1001-2400	Volume 14 Issue 5	May 2020

		Social Communication				
18.	Ms.Rita Roy Mr.D.Rajendra Dev	Enthusiastic knowledge or man-made brainpower-Emotional Intelligence	Journal of Xidian University	1001-2400	Volume 14 Issue 5	May 2020
19.	Mrs.M.Mamatha Laxmi	A Three Layer Privacy Preserving Storage Scheme for Providing Security	International Journal of Creative Research Thoughts	2320-28820	Volume 8 Issue 5	May 2020
20.	Mr.D.Rajendra Dev	Age Estimation by Face Detection Using Convolution Neural Networks	Advanced Science Letters	1936-6612	Volume 26 Num 05	May 2020
21.	Mr.V.Sita Rama Prasad	A Study and Research for cluster analysis on social data	A Journal of Composition Theory	731-6755	VolumeXIII Issue V	May 2020
22.	Mr.A.Maheswararao	Enhancing advance driver assistance system by detecting weather conditions using machine learning	International journal of Research and Analytical reviews	2349-5138	Volume 7 Issue 2	May 2020
23.	Mr.Imandi Raju	Ensemble clustering using DBSCAN and HBDSCAN	Journal of XI'AN University of Architecture & Technology	1006-7930	Volume XII IssueV	May 2020
24.	Ms.Y.Vineela Sravya	Food Calorie Estimation and Auto Bill Generation for Grocery products using YOLO Objects Detection	Journal of XI'AN University of Architecture & Technology	1006-7930	Volume XII Issue V	May 2020
25.	Mrs.K.Deepthi Krishna	Handwritten Digit Recognition and Text Conversion Using MNIST Dataset	International Journal of Creative Research Thoughts	2320-2882	Volume 8 Issue 5	May 2020
26.	Dr.K.Vijaya Kumar	Health monitoring system using rule based expert system	International Journal of Creative Research Thoughts	2320-28820	Volume 8 Issue 5	May 2020
27.	Mrs.J.Hima Bindu	Multimedia content protection system for cloud storage	International journal of Research and Analytical reviews	2349-5138	Volume 7 Issue 2	May 2020
28.	Mrs.R.Pravallika	Pneumonia Detection by X-ray images using deep learning through CNN	Journal Of XI'AN University of Architecture & Technology	1006-7930	Volume XII Issue V	May 2020
29.	Mrs.R.Pravallika	Reducing the Routing Overhead in Secure Mobile ADHOC Networks	International Journal of Engineering Research & Technology	2278-0181	Volume 9 Issue 5	May 2020
30.	Ms.Y.Vineela Sravya	Sentiment Analysis on GST using Polarity Classification	International Research Journal of Engineering and Technology	2395-0072	Volume 7 Issue 5	May 2020
31.	Mrs.G.Pavani Latha	Machine Learning Approach for Forecasting Crop Yield Based on Climatic Parameters	JAC: A Journal of Composition Theory	0731-6755	VolumeVIII Issue V	May 2020
32.	Ms.B.Haritha Lakshmi	A Secure Approach for Communication in Mobile Adhoc Networks	Advanced Science Letters	1936-6612	Volume 26 Num 5	May 2020
33.	Ms.B.Haritha Lakshmi	Crack detection on concrete surfaces	International Journal of Creative	2320-2882	Volume 8	May

		using image processing	Research Thoughts		Issue 5	2020
34.	Mr.Imandi Raju	Redundancy Control Data -Driven Approach for Cluster-Based Wireless Sensor Networks	International Journal of Computer Science and Technology	2229-4333	Volume 11 Issue 2	June 2020
35.	Mrs.J.Hima Bindu	Traffic sign detection using convolutional neural networks	International journal of Computer Science and Technology	2229-4333	Volume 11 Issue 2	June 2020

Table: 5.7.1.e Research Publications in UGC Journals in CAY m1 (2019-20)

List of paper publications in **Scopus journals** during the academic year 2018-19

S.No	Name of the Faculty	Publication Title	Journal title	ISSN	Volume & Issue	Month & year
1.	Dr.K.Vijaya Kumar	Text Mining with Hadoop: Document Clustering with TF_IDF and Measuring Distance Using Euclidean	Journal of Advanced Research in Dynamical & Control Systems	1943-023X	Volume 10 Special Issue 14	July & 2018
2.	Mr.I.Raju Mr.T.Hari babu	An Optimal Approach of Initial Centroid selection for Effective Clustering	International Journal of Innovative Technology and Exploring Engineering	2278-3075	Volume 8 Issue 5	March & 2019
3.	Dr.K.Vijaya Kumar	Artificial Way of Characterizing unsupervised Data using Auto-Encoders With Deep Learning Cluster Analysis	International Journal of Recent Technology and Engineering	2277-3878	Volume 7 Issue 6S2	April & 2019
4.	Dr.K.Vijaya Kumar	Text Mining with Hadoop: Enforcement of Document Clustering using Non-Negative Matrix Factorization KNMF	International Journal of Recent Technology and Engineering	2277-3878	Volume 8 Issue 1	May & 2019

Table: 5.7.1.f Research Publications in Scopus Journals in CAY m2 (2018-19)

List of Paper publications in **UGC journals** during the academic year 2018-19

S.No	Name of the Faculty	Publication Title	Journal title	ISSN	Volume & Issue	Month & year
1.	Ms.Y.Vineela Sravya Mrs.R.Pravallika	Deep Neural Networks Based Disease Detection in Family of Cashew Plants by Leaf Image Classification	International Journal of Engineering Science Invention	2319-6726	Volume 7 Issue 6	June & 2018
2.	Ms.Rita Roy	Knowledge Discovery Through	International Journal of	2249-7455	Volume IX	March

	Mr.D.Rajendra Dev	Various Clustering Techniques	Management Technology and Engineering		Issue III	& 2019
3.	Ms.Rita Roy Mr.D.Rajendra Dev	Multi Include Demonstrating of pulse clarity: Plan, Approval and advancement	International Journal of Management Technology and Engineering	2249-7455	Volume IX Issue III	March & 2019
4.	Dr.P.Vijaya Bharati Ms.Rita Roy	Implementing Cloud Based Anti-Vehicle Theft System Using Computer Vision	Pramana Research Journal	2249-2976	Volume 9 Issue 4	March & 2019

Table: 5.7.1.g Research Publications in UGC Journals in CAY m2 (2018-19)

List of paper publications in **Scopus journals** during the academic year 2017-18

Sl. No	Authors Name	Title of the Paper	Name of the Journal	ISSN	Volume & Issue	Month & Year
1	Mrs. D. Kamal Kumari	A Novel Cryptographic Loom Via Multi International Languages DOI: 10.21664/2238-886 9.2017v6i2	Frontiers: Journal of Social, Technological and Environmental Science	2238-8869	Volume 6, Issue 2	Aug 2017
2	Mr. S. Ram Prasad Reddy	Personalized Anonymization For Patient Privacy In A Mobile Health World DOI: 10.21664/2238-8869.2017	Journal of Advanced Research in Dynamical and Control Systems	2238-8870	Volume 6, Issue 2	Aug 2017
3	Dr. K Vijaya Kumar	IBFWA: Integrated Bloom Filter in Watchdog Algorithm for hybrid black hole attack detection in MANET DOI: 10.1080/19393555.2016.1274805	Information Security Journal: A Global Perspective	1943-023X	Volume 9, Issue 2	Oct 2017
4	Mr. S. Ram Prasad Reddy	A Novel Approach for Personalized Privacy Preserving Data Publishing with Multiple Sensitive Attributes	International Journal of Engineering & Technology	2227-524X	Volume 7, Issue 2	Feb 2018
5	Dr. K Vijaya Kumar	Extended Optimization Procedures for Static List based Task Scheduling Algorithms for HeDCS	International Journal of Recent Technology and Engineering (IJRTE)	2277-3879	Volume 8, Issue 11	Sep 2019

***Table B.5.7.1.h* Research Publications in Scopus Journals in CAY m3 (2017-18)**

List of paper publications in **UGC journals** during the academic year 2017-18

Sl. No	Authors Name	Title of the Paper	Name of the Journal	ISSN	Volume & Issue	Month & Year
1	Dr. K Vijaya Kumar	Proactive QoS Routing for Data Reliability and Discriminated Services in Ad-Hoc Networks.	International Journal of Advanced Technology and Innovative Research	2348–2370	Volume 9, Issue 9	Aug 2017
2	S. Ram Prasad Reddy KVSVN Raju V. Valli Kumari	Personalized Privacy Preserving Incremental Data Dissemination through Optimal Generalization DOI: 10.36478/jeasci.2018.4205.4216	Journal of Engineering and Applied Sciences	1816-949X	Volume 13, Issue.11,	May 2018

***Table B.5.7.1.i* Research Publications in UGC Journals in CAY m3 (2017-18)**

Books/Book Chapters: CAY (2019-20)

Sl. No	Name of the Faculty	Title of The Book	Name of the chapter	Year of Publication	Chapter/ Edition	ISBN
1	Dr.P. Vijaya Bharati	Advanced Machine Vision Paradigms for Medical Image Analysis (Elsevier)	A Cognitive Perception on Content Based Image Retrieval using Advanced Soft Computing Paradigm.	3rd August 2020	Chapter 6/ 1st edition	9780128 192955

Table B.5.7.1.j Details of Books/Book Chapter Publications

Patents Published during the academic year 2020-21

S.No	Name of the Faculty	Patent Number	Title of the Patent	Month &Year of Publication	Academic Year
1	Dr. K. Vijaya Kumar	US2021/0049206A1	Computer Implemented Method and a Computer System for Document Clustering and Text Mining.	18-02-2021	2020-21
2	Dr. K. Vijaya Kumar	202041055801	Method for providing Encrypted Secure Communications in Networked IoT Devices.	26-02-2021	2020-21
3	Mr A. Srinivas	2021103962	A Portable System and Method for Real-Time Monitoring the Indoor Air Quality Using IoT	07-08-2021	2020-21

Table B.5.7.1.k Details of Patents Published

B. Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute *(4)*

Ph.D awarded during 2019-20

S. No	Name of Faculty	University	Month &Year of award	Branch	Specialization	Part-time Regular	TITLE
1.	Dr. G. Neelima	GITAM University	11.12.2019	CSE	Data Mining	Part time	Analyzing the user searching behavior through improved web rule mining approaches.
2.	Dr. P. Vijaya Bharati	GITAM University	08.02.2020	CSE	Cloud computing	Part time	Ensuring data storage security in cloud computing using cryptographic mechanism

Table B.5.7.1.l Details of Faculty who Awarded Ph.D. for Academic year CAY m1 (2019-20)

5.7.2 Sponsored Research (5)

Funded Research

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding amount (Cumulative during CAYm1, CAYm2 and CAYm3):

Amount > 20 Lakh – 5 Marks

Amount >= 16 Lakh and <= 20 Lakh – 4 Marks

Amount >= 12 Lakh and < 16 Lakh – 3 Marks

Amount >= 8 Lakh and < 12 Lakh – 2 Marks

Amount >= 4 Lakh and < 8 Lakh – 1 Mark

Amount < 4 Lakh – 0 Mark

NIL

5.7.3. Development activities (10)

Provide details:

- *Product Development*
- *Research laboratories*
- *Instructional materials*

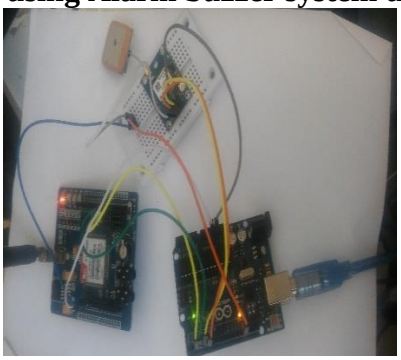
- *Working models/charts/monograms etc.*

A. Development activity allows the student to strengthen the technical skills that needs to improve outside the boundary. These activities will increase the competency spirit and fill the weak gaps as an individual and team work. The encouragement of various development activities helps to develop the student a prime consideration for employment and the opportunities associated with the skills on demand.

A) Product Development

Students and Faculties of the Department of Computer Science and Engineering have contributed towards development of various products.

1. "**Rakshana" Women Safety using Alarm buzzer system using GPS**



Students of IV B Tech II Sem (2018-19) developed this prototype as their project work. This device raises alarm and sends message to nearby police station with location when the person press the button in need. In emergency, by pressing the button women can get quick assistance.

2. **Smart Dustbin**

Students of IV B.Tech II Sem (2019-20) developed this prototype to participate in Techfest.

Smart dustbin is a bin which automatically opens the lid when it senses any person near to it. The advantage of this bin is without touching the lid to put the wastage which keeps far from infections while touching the lid.

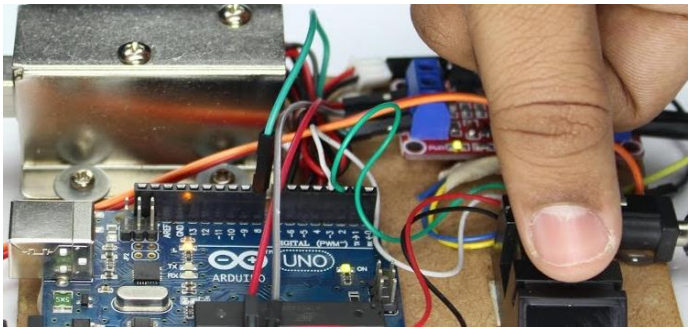
3. **Automatic Sanitizer dispenser:**

Students of II B.Tech II Sem (2019-20) developed this prototype to participate in technical expo. Automatic sanitizer dispenser is a model which is very helpful to sanitize hands with a sanitizer liquid inside a container. Whenever any person is near to the device with his hand under the outlet, it pours few drops on the hand. The main use is contactless sanitization of hands.

4. **Real-Time Mask Recognition**

Students of II B.Tech II Sem (2020-21) developed this prototype as mini project work. This prototype is used to detect the mask. The detection mechanism includes the servo motor functionality of opening the door upon recognition of the mask and closes the door in case of absence of the mask.

5. **Fingerprint Door Lock Control System**



Students of III B.Tech II Sem (2020-21) developed this prototype as mini project work. This prototype has fingerprint for biometric verification as it is one such thing which is unique to every individual and the use of fingerprint as the key to door locks can overcome the security problem of unauthorized people trespassing to our homes, shops and offices. Also, this system will not lead to problems like losing keys because we do not require carrying keys if this system is used instead of traditional locks.

B) Research laboratories

1. Project Lab

The Department provides facilities for the students to do project work and to enhance their knowledge. The project lab is used by students and faculty to engage in their research areas. The project Lab is provided with adequate resources to enhance their skills in research. Our students exhibited their skills in doing real time projects and participated in various competitions. The following are the major outcomes of the laboratory.

Student publications:

S. No	Name of the Student	Project Title
1	S Sravya, P Yamini, Y.Vasantha, P Pooja	Fake News Detection and Comparison Using Machine Learning Algorithms
2	G.Sailaja, B. Niharika, V. Mani Chandana, V.Bhavya	Distributed Metadata Management for Large Storage Systems using Hierarchical Bloom Filter Arrays
3	Ch. Navya Bharathi, Ch.Ramya,	Retrieval of featured images using face recognition.

	K.Chinni, K.Sai Praneetha	
4	G Aishwarya, B Niharika, B Suryateja, B Harika	Enhancing Advance Driver Assistance System By Detecting Weather Conditions Using Machine Learning
5	Atta Lavanya, Dasari Vandana Sri, Bera Sridevi, Jajula Poornima	Age Estimation By Face Detection Using Convolution Neural Networks
6	P. Harshitha, P. Manasa, R. Sai Priya, M. Joshna	Traffic Sign Detection using Convolutional Neural Networks
7	G. Mounika, K. Anjali Reddy, Durga Bhavani, B. Shivani	Object Match Swapping Detection of Facial Landmarks Using Local-based Information
8	K. Yogitha, J Swetha, G. Praharsha, Chakka Swapna	Offline Handwritten Character Recognition using Neural Network
	K.Usha, K.Sri Harsha, S.Rajeswari,B.V. S. S. Madhuri	Pneumonia detection by X-ray images using Deep learning through CNN
10	T.Jaya, R. Sravanisandhya, M. Pravallika, S. Snigtha	Sentimental Analysis on GST using Polarity Classification

Table B.5.7.3.a

2. IoT LAB:

Internet of Things laboratory is sponsored by Texas Instruments in the year 2018. This IoT lab is used to design and develop IoT based real-time projects and supporting in developing research activities. The students of Computer Science Engineering enhance their knowledge towards developing of IoT applications by gaining knowledge on IoT domain within the campus and to stay ahead of their peers.

Students and faculty can utilize our IoT test bed available in IoT lab to get hands-on exposure on IoT platform. This IoT test bed is an open and developing ecosystem of edge devices, communication protocols, cloud-based platforms and application with a focus on cost-effective IoT technologies.

Students developed IoT based projects like Health Monitoring System, Smart Home Safety System and Smart Irrigation etc., to participate in various technical events.

The following are the Kits Sponsored by TI kits from STEPS Knowledge services Pvt. ltd will be used by Department of CSE for academic purpose:

Sl. No	Description of the hardware	Quantity
1	CC3200 Simple Link Wi-Fi Launch Pad	15
2	EK-TM4C729EXL	2
3	MSP 430 EXP G2 Launch Pad	8
4	RF Booster Pack CC110L	4
5	37 Sensors Kit	1
6	BBONE-BLACK-WIRELESS	2
7	MSP 430 EXP G2 Launch Pad	30
8	MSP-EXP 430F5529 Experimenter Board	2
9	RF Booster Pack CC110L	5
10	STEPS Experimenter Pack for MSP 430	10
11	MSP-EXP43OF5529LP	10
12	BOOST-DAC8568	2

C) Instructional materials

1. Course Files

The Course coordinator prepare/update lecture notes for allotted subjects by consulting various prescribed textbooks, Question banks of previous examinations, relevant NPTEL courses and other e-resources from Google. The Course coordinator maintains a course file that includes the following along with the lecture notes:

- Department Mission, Vision
- Program outcomes
- Course syllabus
- Course outcomes
- CO-PO Mapping
- University Academic Calendar
- Department Academic Calendar
- CDP
- Course Timetable

- Lecture Notes
- Question Bank (unit wise)
- Multiple Choice Questions
- Tutorial Topics/Problems
- Topics beyond Syllabus
- PPT's/videos/other materials
- Internal question papers & scheme
- Assignment Questions
- University old question Papers
- Gap Analysis
- Remedial Classes to weak students
- Result Analysis & Course attainments

2. Google classroom

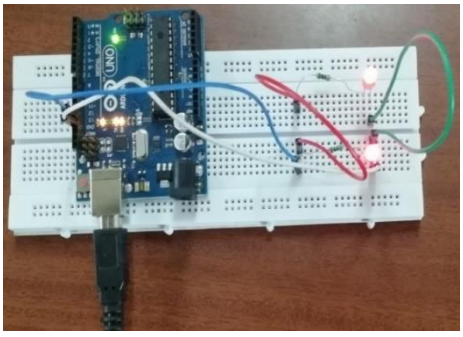
Google classroom is an application designed to enhance the learning experience which is incorporated in our teaching learning process. It helps to interact with students 24 X 7, by posting technical contents, notes, and assignments and also facilitates to conduct and evaluate online quizzes. The tools offer opportunities for collaboration in real time and the ability to work remotely.

3. Laboratory Manuals:

Lab Manuals are prepared for every regulation and the respective handouts will be given at the beginning of each semester.

D) Working models/charts/monograms etc.

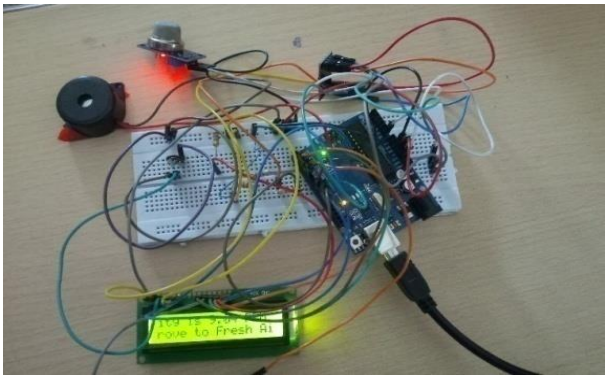
1. Streetlight that glows on detecting the vehicle movement using image processing



Students of IV B Tech II Sem (2018-19) developed this model as their project work. During

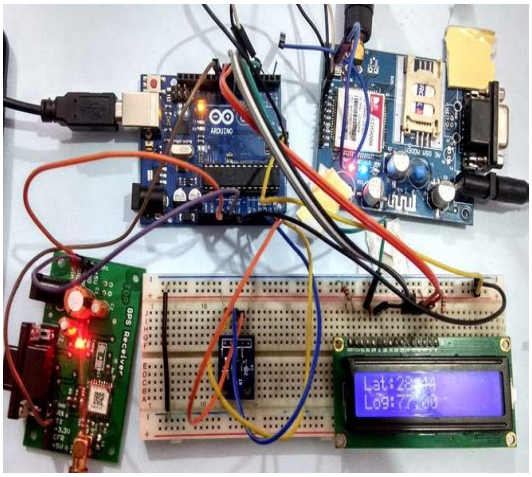
night, in order to save energy while using street lights beside the main road, these light glow when it detects any vehicle in its proximity range and automatically switch off when the vehicle passes away.

2. IoT Based Air Pollution Monitoring System using Arduino



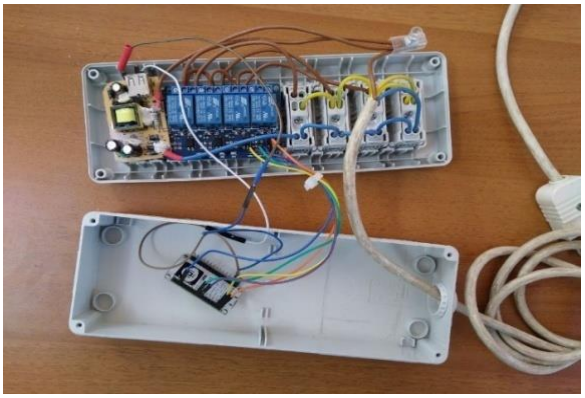
Students of IV B Tech II Sem (2018-19) developed this prototype as their project work. This prototype is used to find the pollution in air using IoT. A threshold value is fixed and the buzzer produce sound when the sensed air has PPM value more than the threshold and sends an email to the respective authority.

3. Road Accident Alert System



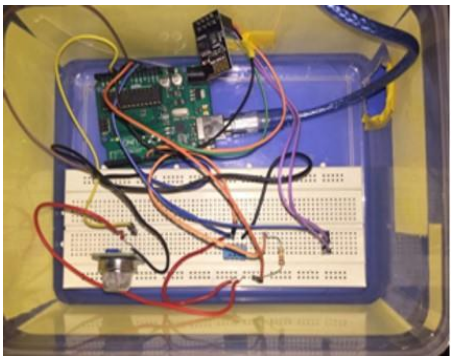
Students of IV B Tech II Sem (2018-19) developed this prototype as their project work. This prototype is used to send information to the nearest police station whenever an accident happens. This prototype is designed to send the information by message using GSM and accident place by using GPS for quick rescue and saving lives.

4. Industrial Smart Power Strip



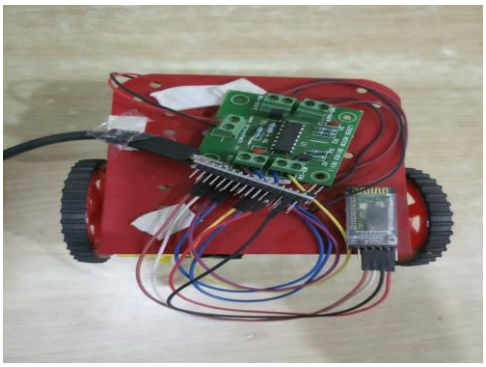
This prototype is used to maintain the switches or controls virtually by using Internet. The controls will be available in the form of mobile application which can be controlled at any time. To make the control ON and OFF on demand, this prototype can be used.

5. Smart Home Safety System



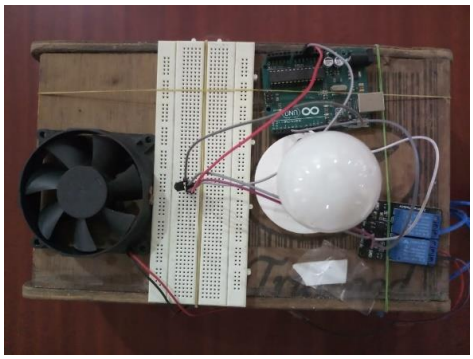
Students of IV B Tech II Sem (2017-18) developed this project as a part for Technical expo. This model is used to identify gas leakage like LPG in domestic purpose. It sends an alarm and message to the registered mobile number whenever it senses gas leakage by using MQ2 sensor.

6. Voice Controlled Car



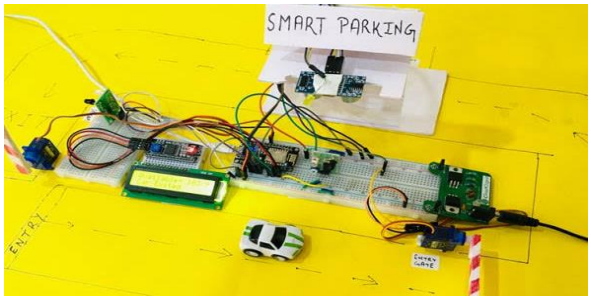
Students of IV B. Tech II Sem (2019-20) developed this prototype to participate in technical expo. This prototype is used to operate the car through voice based control. The main objective of this model is for physically challenged persons to comfortably drive the car on road.

7. Home Automation using TV Remote



Students of IV B. Tech II Sem (2019-20) developed this prototype to participate in technical expo. This model is used to effectively utilize the unused controls of the television remote to control other appliance in home. The unused controls in the remote can be merged with other device controls.

8. Smart parking system

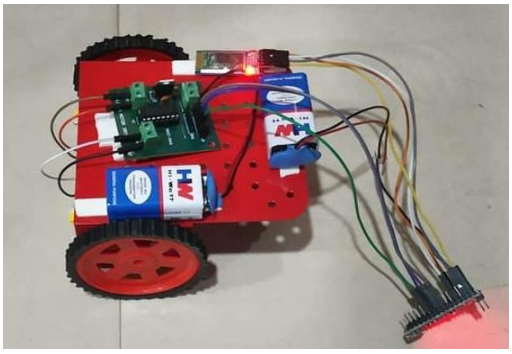


Students of III B.Tech II Sem (2020-21) developed this prototype as mini project work. This prototype is used for Smart Parking system consists of deployment of an IoT module that is used to monitor and signalize the state of availability of each single parking space.

9. Smart Irrigation

Students of III B.Tech II Sem (2020-21) developed this prototype as mini project work. This prototype is used to helps in conserving water by automatically providing water to the plants/field depending on the water requirements.

10. Bluetooth Controlled Robot using Android Mobile



Students of III B.Tech II Sem (2020-21) developed this prototype as mini project work. Android controlled robot project make use of an Android mobile phone for robotic control with the help of Bluetooth technology. For this the android mobile user has to install an application on her/his mobile. Then user needs to turn on the Bluetooth in the mobile. User can use various commands like move forward, reverse, stop move left, and move right.

5.7.4. Consultancy (from Industry) (5)

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding amount (Cumulative during CAYm1, CAYm2 and CAYm3):
Amount > 10 Lakh – 5 Marks
Amount >= 8 Lakh and <= 10 Lakh – 4 Marks
Amount >= 6 Lakh and < 8 Lakh – 3 Marks
Amount >= 4 Lakh and < 6 Lakh – 2 Marks
Amount >= 2 Lakh and < 4 Lakh – 1 Mark
Amount < 2 Lakh – 0 Mark

CAYm1(2019-20)

Sl. No	Name of the PI and Co PI	Project Title	Funding Agency	Amount	Duration
1.	Dr. K. Vijaya Kumar (Principal Investigator) Associate Professor	Hospital Management Software	Shyamgar Software Solutions	Rs. 8,20,000/-	02 years
2.	Dr. P. Vijaya Bharati (Co- Principal Investigator) Associate Professor	Performance Management System (e-PMS)	Brain O Vision solutions Pvt Ltd	Rs. 8,40,000/-	02 years

Table. 5.7.4.a: Consultancy Information for CAYm1(2019-20)

CAYm2(2018-19)

Sl. No	Name of the PI and Co PI	Project Title	Funding Agency	Amount	Duration
1.	Dr. K. Vijaya Kumar (Principal Investigator) Associate Professor	Hospital Management Software	Shyamgar Software Solutions	Rs. 8,20,000/-	02 years
2.	Dr. P. Vijaya Bharati (Co- Principal Investigator) Associate Professor	Performance Management System (e-PMS)	Brain O Vision solutions Pvt Ltd	Rs. 8,40,000/-	02 Ears

Table. 5.7.4.b: Consultancy Information for CAYm2(2018-19)

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

A. A welled fined performance appraisal and development system instituted for all the assessment years

In an effort to recognize and reward the performance of staff, it is the philosophy of the Institution to award annual increments to encourage the quality of teaching, research and to optimizing the contribution of individual faculty to institutional performance through an effective performance appraisal system.

The faculty members shall submit the open and transparent performance report in the prescribed format, containing the teacher's academic, research, supplementary activities and achievements during the academic year. The Head of the Department shall offer his remarks and observation on the form. The Academic Planning and Audit Committee (APAC) shall review the report on Performance Appraisal staff to the Management through the Principal. The assessment shall be used for the following purposes.

1. Award of annual increments.
2. Award of special increments/allowance.
3. Award of career advancement and promotion.
4. Monitoring and recording of the regular growth of each faculty member.

Parameters to asses Performance Appraisal

The performance of staff assessed through **3 criteria** for the purpose of annual increment with a total score of 10.

Criteria No.	Element of Criteria	Max. Score	% of Weightage
1	Academic Results & Feedback	4 Marks	40%
2	Research & Development	3 Marks	30%
3	Supplementary Activities	3 Marks	30%
Total		**10 Marks**	**100%**

Table B.5.8.a: Elements of Criteria's in Appraisal Form

Criterion -1 is mainly focused on the academic performance of staff which covers the teaching related activities, domain knowledge, semester results and students feedback in an academic year.

Criterion -2 is mainly considered the faculty output in Research and Development activates in an academic year. Based on cadre of faculty, the expected output of R&D shall be categorized. R & D activities includes Research papers published in scholarly journals, Book publications, research projects, consultancy projects, organizing and attending conferences/seminars, workshops and FDPs.

Criterion -3 covers curricular and extracurricular activities, counseling/mentoring of students, roles and contributions in Institutional Governance and administration, awards and achievements and Professional Development Activates.

Grant/Award of Annual Increments:

Increments shall be sanctioned by the Management as recommended by the Principal. The grant of number of increments is based on the score secured by the faculty out of the total score of 10.

Secured Score	Grade	No. of Increments
>= 7.5	A+	3 (Three)
<7.5 & >=6.5	A	2 (Two)
<6.5 & >=5	B	1 (One)
<5	C	No Increment

Table B.5.8.b: Details of Grades and Increments

Its implementation and effectiveness (20)

a) If a teaching staff falls in 'B' grade in 2 continuous years, the Management/Principal have right to terminate or service one month notice to staff for termination due to lack of improvement in performance.

b) If a teaching staff falls in 'C' grade, the Management/Principal have right to terminate the faculty immediately or service one month notice to staff for termination. In special cases, the Principal shall allow an opportunity to improve the performance with in one academic year.

Letter of Annual Increment:

All employees will be informed in writing about their annual increments after the Performance Appraisal.

In an effort to recognize and reward the performance of employees, it is the organization's philosophy that the principal component to enhance compensation shall be through annual increment based on performance evaluations.

Application of the Policy

- All regular employees are eligible for yearly increment based on the results of their Performance Appraisal conducted annually.

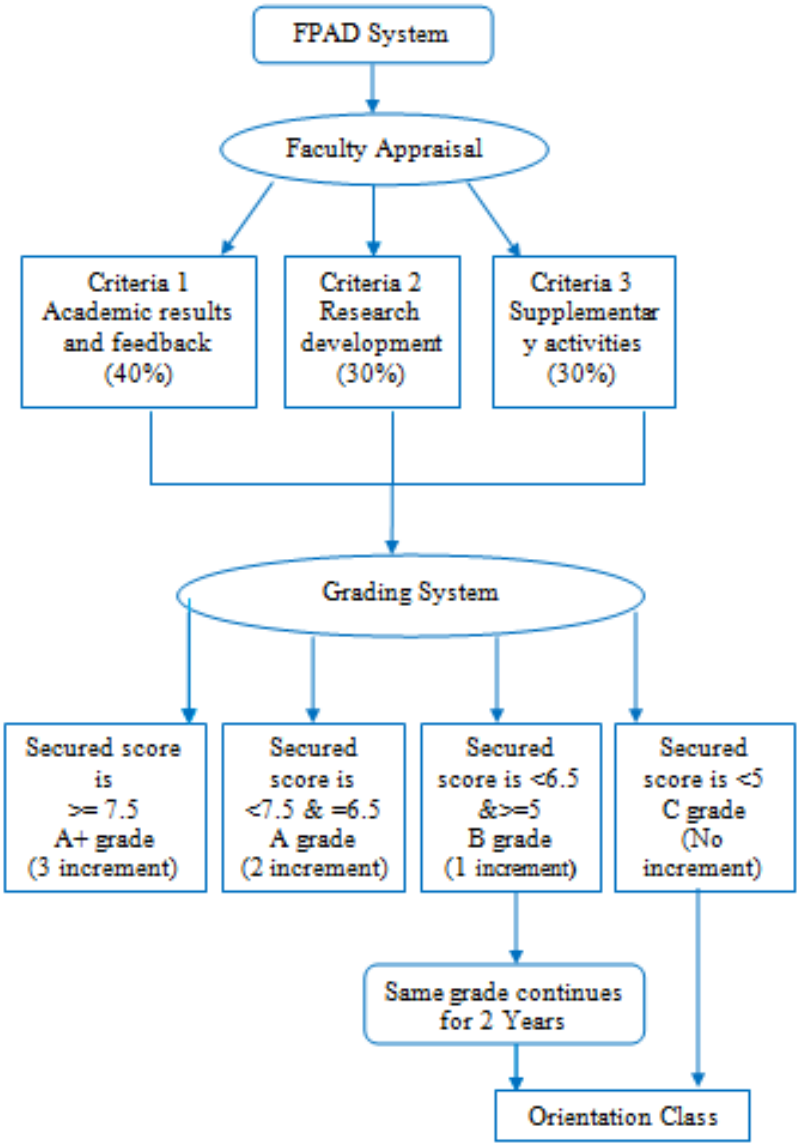


Figure B.5.8.a: Faculty Performance Appraisal Development System

Academic Year	Total Number of eligible Faculty include First year	No. of faculty members secured A^+ grade	No. of faculty members secured A grade	No. of faculty members secured B grade	No. of faculty members secured C grade
CAYm3(2017-18)	41	16	12	04	09
CAYm2(2018-19)	37	07	08	01	21
CAYm1(2019-20)	33	13	11	02	07

Table B.5.8.c: Faculty assessment inCAYm1, CAYm2 and CAYm3

The faculty who secured 3 increments will consider under A + grade. Similarly, the faculty who secured 2, 1, and 0 increments will come under A, B, C grades respectively. Based on the TEACHING STAFF APPRAISAL POLICY the table lists the data of increments secured by CSE faculty during the last 3 years. During the assessment year 2017-18 out of 41 faculty Members 16 members secured A + grade, 12 members secured A, 04 members secured B and 09 members secured C respectively. For the assessment year 2018-19, out of 37 faculty members in which 07 secured A + grade, 08 secured A, 01 secured B and 21 secured C grades. During 2019-20 out of 33 faculty members 13 secured A + grade, 11 secured A, 2 secured B and 07 members secured C respectively.

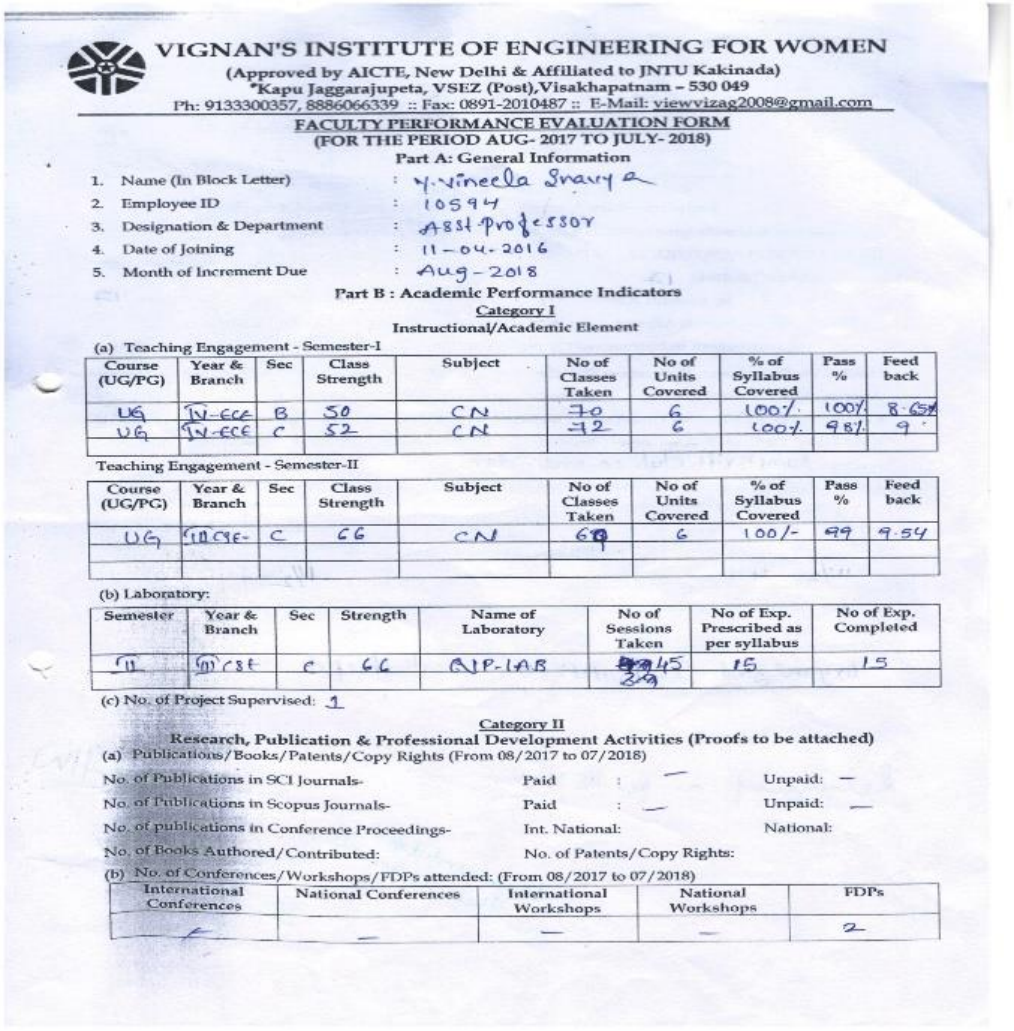
List of faculty received Annual Increments for CAYm3 (2017-18):

Sl. No	Name of Faculty Member	Designation	Grade	No. of Increments	Increment (Rs.)
1.	Dr. M. Ben Swarup	Professor	A	2	4,824
2.	Dr. T. V. Madhusudhan	Professor	A	2	4,824
3.	Dr. B. Prasad	Professor	A	2	4,824
4.	Dr. K. Vijaya Kumar	Assoc Prof	A+	3	6,798
5.	Dr. N. Thirupathi Rao	Assoc Prof	A	2	4,532
6.	Dr. J. Anitha	Assoc Prof	A	2	4,532
7.	Mr. S. Ram Prasad Reddy	Asst. Prof	A	2	1,750
8.	Mrs. P. Vijaya Bharati	Asst. Prof	A+	3	2,625
9.	Mr. N. K. Santosh	Asst. Prof	A+	3	2,625
10.	Mr. L. Bhupathi Rao	Asst. Prof	A+	3	2,625
11.	Mr. B. A. Ganesh	Asst. Prof	A+	3	2,625
12.	Mr. A. N. Suresh	Asst. Prof	A	2	1,750
13.	Mrs. D. Kamal Kumari	Asst. Prof	A+	3	2,625
14.	Mr. K. Madhuri	Asst. Prof	A	2	1,750
15.	Mrs. M. Mamatha Laxmi	Asst. Prof	B	1	875
16.	Mrs. S. Chandini	Asst. Prof	A	2	1,750
17.	Mr. B. Venkatesh	Asst. Prof	B	1	875
18.	Mr. Ch. Sudhakar	Asst. Prof	A+	3	2,625
19.	Ms. T. Padmavathy	Asst. Prof	A+	3	2,625
20.	Mr. I. Raju	Asst. Prof	A+	3	2,625
21.	Mrs. Y. Vineela Sravya	Asst. Prof	A+	3	2,625
22.	Mrs. R. Pravallika	Asst. Prof	A+	3	2,625

23.	Mrs. G. Sandhya	Asst. Prof	A+	3	2,625
24.	Mrs. G. Pavani latha	Asst. Prof	A+	3	2,625
25.	Mr. P. Praveen Kumar	Asst. Prof	A+	3	2,625
26.	Mr. D. Chandra Mouli	Asst. Prof	B	1	875
27.	Mr. S. Venkatesh	Asst. Prof	B	1	875
28.	Mrs. Ch. Ramya	Asst. Prof	A	2	1,750
29.	Mrs.J.Aruna Devi	Asst. Prof	A	2	1,750
30.	Mr. G. Vinay Reddy	Asst. Prof	A	2	1,750
31.	Mr. M. Srinivasa Rao	Asst. Prof.	A+	3	2,625
32.	Mr. Ch. Sekhar	Asst. Prof.	A+	3	2,625

Table B.5.8.d: Annual Increments for CAYm3 (2017-18)

Faculty Performance Evaluation Form 2017-18:



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)

*Kapu Jaggarajupeta, VSEZ (Post),Visakhapatnam – 530 049

Ph: 9133300357, 8886066339 :: Fax: 0891-2010487 :: E-Mail: viewvizag2008@gmail.com

FACULTY PERFORMANCE EVALUATION FORM

(FOR THE PERIOD AUG- 2017 TO JULY- 2018)

Part A: General Information

1. Name (In Block Letter) : Y. Vineela Sravya
2. Employee ID : 10594
3. Designation & Department : Asst Professor
4. Date of Joining : 11-04-2016
5. Month of Increment Due : Aug-2018

Part B : Academic Performance Indicators

Category I

Instructional/Academic Element

(a) Teaching Engagement - Semester-I

Course (UG/PG)	Year & Branch	Sec	Class Strength	Subject	No of Classes Taken	No of Units Covered	% of Syllabus Covered	Pass %	Feed back
UG	IV-ECE	B	50	CN	70	6	100%	100%	8.65
UG	IV-ECE	C	52	CN	72	6	100%	98%	9

Teaching Engagement - Semester-II

Course (UG/PG)	Year & Branch	Sec	Class Strength	Subject	No of Classes Taken	No of Units Covered	% of Syllabus Covered	Pass %	Feed back
UG	IV CSE	C	66	CN	69	6	100/-	99	9.54

(b) Laboratory:

Semester	Year & Branch	Sec	Strength	Name of Laboratory	No of Sessions Taken	No of Exp. Prescribed as per syllabus	No of Exp. Completed
II	IV CSE	C	66	AIP-LAB	45	15	15

(c) No. of Project Supervised: 1

Category II

Research, Publication & Professional Development Activities (Proofs to be attached)

(a) Publications/Books/Patents/Copy Rights (From 08/2017 to 07/2018)

No. of Publications in SCI Journals- Paid : — Unpaid: —

No. of Publications in Scopus Journals- Paid : — Unpaid: —

No. of publications in Conference Proceedings- Int. National: National:

No. of Books Authored/Contributed: No. of Patents/Copy Rights:

(b) No. of Conferences/Workshops/FDPs attended: (From 08/2017 to 07/2018)

International Conferences	National Conferences	International Workshops	National Workshops	FDPs
—	—	—	—	2

(c) No. of Conferences/Workshops/FDPs Organized: (From 08/2017 to 07/2018)

International Conferences	National Conferences	International Workshops	National Workshops	FDPs
—	—	—	2	—

d) Research Funding Projects:

Year	Title of the Project	Type of Project	Funded Agency	Project Value
—	—	—	—	—

Category III

Supplementary Activities (Attached Additional Sheet, if required)

a) Awards and acknowledging certificates *(kindly attach supporting documents):*

(NET/SLET/M.Phil/Ph.D/IUCEE/NPTEL/Other —)

b) Counseling of Students: 17

(i) Total no. of Regular students Allotted : 14 (ii) Total no. of students cleared all the subjects: 17

(ii) No. of Backlog Students Allotted : 03 (iv) No. of Students cleared Backlogs:

c) Roles and contributions in Institutional Governance and administration (Tick whichever is applicable)

Head of the Department/Department T&P Coordinator/ NSS Coordinator/Women Grievance Cell Coordinator/ Assistant Head of the Department/ Website Coordinator/ Institutional Criteria Coordinator of NBA & NAAC/ College Level Admissions/Time-Table Coordinator/IQAC Coordinator/ Alumni Association Coordinator/ CoE/Exam Cell Staff/Any other Institutional Level Coordinator role assigned by Principal (Please specify... samskriti Club co-ordinator

(d) Regularity assessment of Faculty/Leave Details (From 08/2017 to 07/2018)

CL	ML	CCL	EL	Other Leaves (Academic/Mat. Leave/Paternity Leave	Loss of Pay due to excess Leaves	Loss of Pay due to biometric deviations
11½	4	—	—	—	4½	—

e) Other activities Inside/Outside the campus towards development of self & students: —

f) Contribution to Department:

Organized IoT, APSSDC workshops

f) Contribution to Institution:

h) Any other Information

Recommended as per UE Norms

Remarks of HoD

Signature of Faculty

Remarks/Recommendations of Principal

Recommended for three increments

Signature of Head of the Department

Signature of Principal

Figure B.5.8.b: Sample filled Faculty Appraisal form for CAYm3 (2017-18)

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE & Affiliated to JNT University, Kakinada) Estd. 2008
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530 049, Andhra Pradesh, India
Phone : 9133300357, 8886066339 :: Fax : 0891-2010485
E-mail : view.office2008@gmail.com, viewprincipal@gmail.com website : www.vignanview.org

Increment Letter

20th August 2018

Dear Ms.Y.Vineela Sravya,

Taking into consideration of your performance for the Academic Year 2017-18 and appraisal ratings calculated as per the appraisal policy, I am pleased to announce an increment of Rs. **2,625/-.**

Your new monthly gross salary shall be Rs. **30,047/-** with effect from 1st Aug 2018.

I am confident that you will continue the good work in the same spirit of commitment and sincerity and grow with our Institution. Wish you all the very best for a rewarding career with the Institution.

On the behalf of the Chairman of Vignan Group,

20/8/18

(Dr.J.Sudhakar)
(Principal)
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Figure B.5.8.c: Increment for CAYm3 (2017-18)

List of faculty received Annual Increments for CAYm2 (2018-19):

Sl. No	Name of Faculty Member	Designation	Grade	No. of Increments	Increment (Rs.)
1.	Dr. B. Prasad	Professor	B	1	2412
2.	Dr. K. Vijaya Kumar	Assoc Prof	A+	3	6,798
3.	Dr. N. Thirupathi Rao	Assoc Prof	A+	3	6,798
4.	Mrs. P. Vijaya Bharati	Asst. Prof	A	2	1,750
5.	Mrs. D. Kamal Kumari	Asst. Prof.	A	2	1,750
6.	Mr. Ch. Sudhakar	Asst. Prof.	A+	3	2,625
7.	Mr. I. Raju	Asst. Prof.	A+	3	2,625
8.	Mrs. Y. Vineela Sravya	Asst. Prof.	A	2	1,750
9.	Mrs. R. Pravallika	Asst. Prof.	A	2	1,750
10.	Mrs. G. Sandhya	Asst. Prof.	A	2	1,750
11.	Mrs. G. Pavani latha	Asst. Prof.	A	2	1,750
12.	Mr. Mohan Mahanty	Asst. Prof.	A+	3	2,625
13.	Mrs. N. Sowjanya Kumari	Asst. Prof.	A	2	1,750
14.	Mr. R. Ravi	Asst. Prof.	A	2	1,750
15.	Mr. M. Srinivasa Rao	Asst. Prof.	A+	3	2,625
16.	Mr. Ch. Sekhar	Asst. Prof.	A+	3	2,625

Table B.5.8.e: Annual Increments for CAYm2 (2018-19)

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)
Kapu Jaggarajupeta, VSEZ (Post),Visakhapatnam – 530 049
Ph: 9133300357, 8886066339 :: Fax: 0891-2010487 :: E-Mail: viewvizag2008@gmail.com

FACULTY PERFORMANCE EVALUATION FORM
(FOR THE PERIOD AUG- 2018 TO JULY- 2019)

Part A: General Information

1. Name (In Block Letter) : NALAM. SOWJANYA KUMARI
2. Employee ID : 10702
3. Designation & Department : Assistant. Professor, CSE
4. Date of Joining : 25/05/18
5. Month of Increment Due : Aug - 2019

Part B : Academic Performance Indicators

Category I

Instructional/Academic Element

(a) Teaching Engagement - Semester-I

Course (UG/PG)	Year & Branch	Sec	Class Strength	Subject	No of Classes Taken	No of Units Covered	% of Syllabus Covered	Pass %	Feed back
UG	III CSE	A	58	OOAD	74	6	100	98	8.4

Teaching Engagement - Semester-II

Course (UG/PG)	Year & Branch	Sec	Class Strength	Subject	No of Classes Taken	No of Units Covered	% of Syllabus Covered	Pass %	Feed back
UG	III CSE	B	62	DWDM	72	6	100	97	9.42

(b) Laboratory:

Semester	Year & Branch	Sec	Strength	Name of Laboratory	No of Sessions Taken	No of Exp. Prescribed as per syllabus	No of Exp. Completed
I	III CSE	A	58	UNL Lab	45	13	13
II	III CSE	B	62	DWDM Lab	39	10	10

(c) No. of Project Supervised: 01

Category II

Research, Publication & Professional Development Activities (Proofs to be attached)

(a) Publications/Books/Patents/Copy Rights (From 08/2018 to 07/2019)

No. of Publications in SCI Journals- Paid : Unpaid:

No. of Publications in Scopus Journals- — Paid : — Unpaid: —

No. of publications in Conference Proceedings- Int. National: National:

No. of Books Authored/Contributed: No. of Patents/Copy Rights:

(b) No. of Conferences/Workshops/FDPs attended: (From 08/2018 to 07/2019)

International Conferences	National Conferences	International Workshops	National Workshops	FDPs
—	—	—	—	2

(c) No. of Conferences/Workshops/FDPs Organized: (From 08/2018 to 07/2019)

International Conferences	National Conferences	International Workshops	National Workshops	FDPs
—	—	—	—	—

d) Research Funding Projects:

Year	Title of the Project	Type of Project	Funded Agency	Project Value
—	—	—	—	—

Category III

Supplementary Activities (Attached Additional Sheet, if required)

a) Awards and acknowledging certificates *(kindly attach supporting documents):*

(NET/SLET/M.Phil/Ph.D/IUCEE/NPTEL/Other —)

b) Counseling of Students:

(i) Total no. of Regular students Allotted : 13 (ii) Total no. of students cleared all the subjects: 13

(ii) No. of Backlog Students Allotted : 02 (iv) No. of Students cleared Backlogs: 02

c) Roles and contributions in Institutional Governance and administration (Tick whichever is applicable)

Head of the Department/Department T&P Coordinator/ NSS Coordinator/Women Grievance Cell Coordinator/ Assistant Head of the Department/ Website Coordinator/ Institutional Criteria Coordinator of NBA & NAAC / College Level Admissions/Time-Table Coordinator/IQAC Coordinator/ Alumni Association Coordinator/ CoE/Exam Cell Staff/Any other Institutional Level Coordinator role assigned by Principal (Please specify—)

(d) Regularity assessment of Faculty/Leave Details (From 08/2018 to 07/2019)

CL	ML	CCL	EL	Other Leaves (Academic/Mat. Leave/Paternity Leave	Loss of Pay due to excess Leaves	Loss of Pay due to biometric deviations
5	1	—	—	—	—	—

e) Other activities Inside/Outside the campus towards development of self & students:

f) Contribution to Department: —

f) Contribution to Institution: —

h) Any other Information —

Recommended as per Norms

Remarks of HoD

N. Sanjot

Signature of Faculty

Signature of Head of the Department

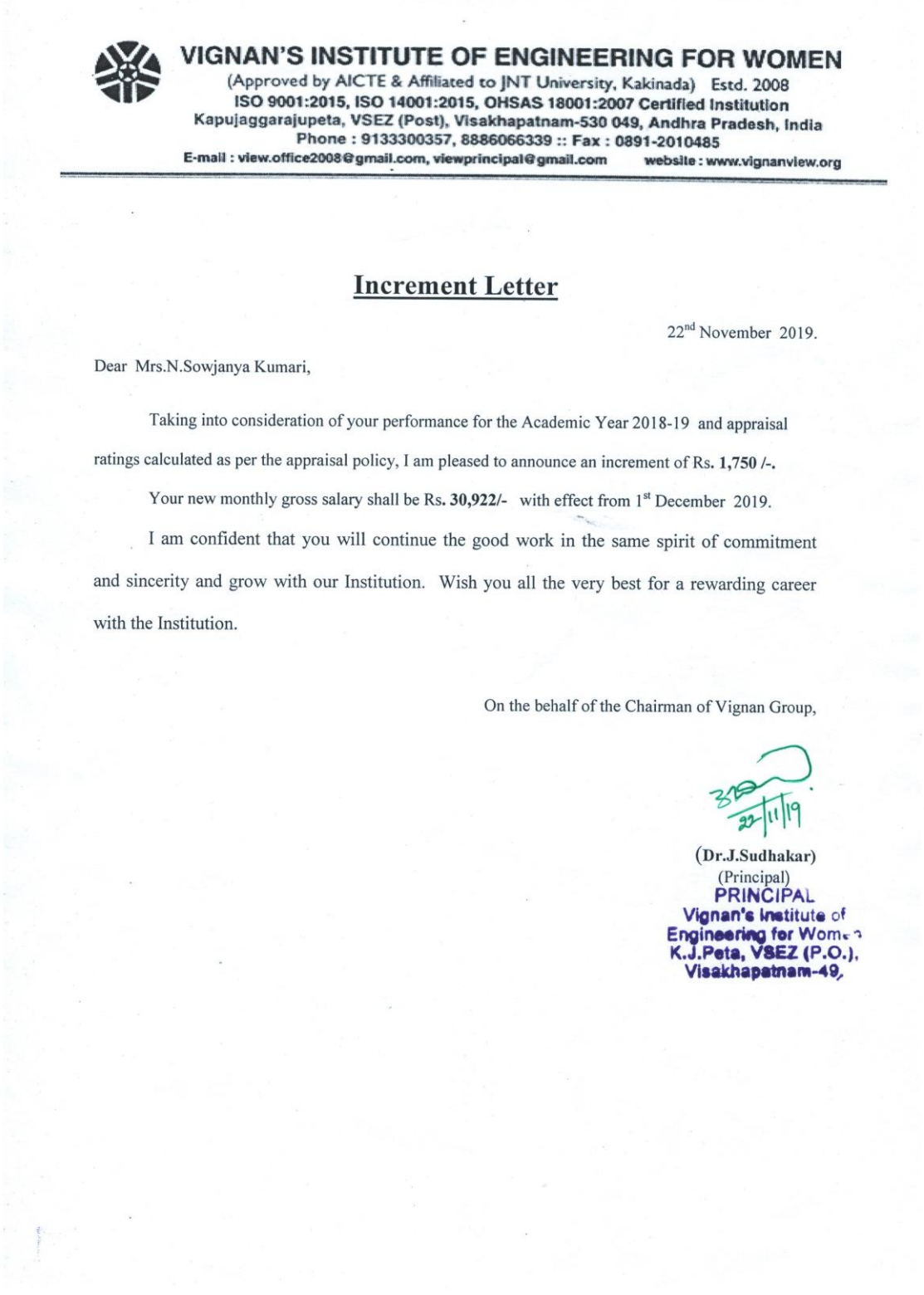
Remarks/Recommendations of Principal

Approved for two increments as per our self appraisal policy

30/08/19

Signature of Principal

Figure B.5.8.d: Sample filled Faculty Appraisal form for CAYm2 (2018-19)



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE & Affiliated to JNT University, Kakinada) Estd. 2008
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530 049, Andhra Pradesh, India
Phone : 9133300357, 8886066339 :: Fax : 0891-2010485
E-mail : view.office2008@gmail.com, viewprincipal@gmail.com website : www.vignanview.org

Increment Letter

22nd November 2019.

Dear Mrs.N.Sowjanya Kumari,

Taking into consideration of your performance for the Academic Year 2018-19 and appraisal ratings calculated as per the appraisal policy, I am pleased to announce an increment of Rs. **1,750 /-.**

Your new monthly gross salary shall be Rs. **30,922/-** with effect from 1st December 2019.

I am confident that you will continue the good work in the same spirit of commitment and sincerity and grow with our Institution. Wish you all the very best for a rewarding career with the Institution.

On the behalf of the Chairman of Vignan Group,

22/11/19

(Dr.J.Sudhakar)
(Principal)
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Figure B.5.8.e: Increment Letter for CAYm2 (2018-19)

Proposed List of faculty Annual Increments for CAYm1 (2019-20):

Sl. No	Name of Faculty Member	Designation	Grade	No. of Increments	Increment (Rs.)
1.	Dr. T.V. Madhusudhan Rao	Professor	A	2	4,824
2.	Dr. B. Prasad	Professor	A	2	4,824
3.	Dr. K. Vijaya Kumar	Assoc Prof	A+	3	6,798
4.	Dr. P. Vijaya Bharati	Assoc Prof	A+	3	6,798
5.	Dr. N. Thirupathi Rao	Assoc Prof	A	2	4,532
6.	Dr. G. Neelima	Assoc Prof	A	2	4,532
7.	Mrs. M. Mamatha Laxmi	Asst. Prof	A+	3	2,625
8.	Mr. Ch. Sudhakar	Asst. Prof	B	1	875
9.	Mr. I. Raju	Asst. Prof	A+	3	2,625
10.	Mrs. Y. Vineela Sravya	Asst. Prof	A+	3	2,625
11.	Mrs. R. Pravallika	Asst. Prof	A+	3	2,625
12.	Mrs. M. Sailaja	Asst. Prof	A	2	1,750
13.	Mrs. G. Sandhya	Asst. Prof	A+	3	2,625
14.	Mrs. G. Pavani latha	Asst. Prof	A+	3	2,625
15.	Mrs. B. Madhavi	Asst. Prof	A	2	1,750
16.	Mr. Mohan Mahanty	Asst. Prof	B	1	875
17.	Mr. S. Raju Chintalapati	Asst. Prof	A	2	1,750
18.	Mrs. V. Sree Lahari	Asst. Prof	A+	3	2,625
19.	Mrs. N. Sowjanya Kumari	Asst. Prof	A+	3	2,625
20.	Mr. D. Rajendra Dev	Asst. Prof	A+	3	2,625
21.	Ms. Rita Roy	Asst. Prof	A+	3	2,625
22.	Mr. R. Ravi	Asst. Prof	A+	3	2,625
23.	Mrs.J. Hima Bindhu	Asst. Prof	A	2	1,750
24.	Mrs. Sheik Rahamuinissa	Asst. Prof	A	2	1,750
25.	Ms. B. Haritha Laxmi	Asst. Prof	A	2	1,750
26.	Mr. A. Maheswara Rao	Asst. Prof	A	2	1,750

Table B.5.8.f: Annual Increments for CAYm1 (2019-20)

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)
Kapu Jaggarajupeta, VSEZ (Post),Visakhapatnam – 530 049
Ph: 9133300357, 8886066339 :: Fax: 0891-2010487 :: E-Mail: viewvizag2008@gmail.com

FACULTY PERFORMANCE EVALUATION FORM
(FOR THE PERIOD AUG- 2019 TO JULY- 2020)

Part A: General Information

1. Name (In Block Letter) : R. RAVI
2. Employee ID : 10718
3. Designation & Department : Asst. Prof. CSE
4. Date of Joining : 30/06/2018
5. Month of Increment Due : Aug 2020

Part B : Academic Performance Indicators

Category I

Instructional/Academic Element

(a) Teaching Engagement - Semester-I

Course (UG/PG)	Year & Branch	Sec	Class Strength	Subject	No of Classes Taken	No of Units Covered	% of Syllabus Covered	Pass %	Feed back
UG	IV-CSE	A	61	SADP	77	6	100	100	8.74

Teaching Engagement - Semester-II

Course (UG/PG)	Year & Branch	Sec	Class Strength	Subject	No of Classes Taken	No of Units Covered	% of Syllabus Covered	Pass %	Feed back
UG	IV-CSE	A	61	DDS	76	6	100	92	9.7
UG	IV-CSE	B	62	DDS	76	6	100	97	9.2

(b) Laboratory:

Semester	Year & Branch	Sec	Strength	Name of Laboratory	No of Sessions Taken	No of Exp. Prescribed as per syllabus	No of Exp. Completed
I	IV-CSE	A	61	SADP Lab	45	22	22

(c) No. of Project Supervised: 1

Category II

Research, Publication & Professional Development Activities (Proofs to be attached)

(a) Publications/Books/Patents/Copy Rights (From 08/2019 to 07/2020)

No. of Publications in SCI Journals- Paid : 3 Unpaid: —

No. of Publications in Scopus Journals- Paid : — Unpaid: —

No. of publications in Conference Proceedings- Int. National: — National: —

No. of Books Authored/Contributed: No. of Patents/Copy Rights: —

(b) No. of Conferences/Workshops/FDPs attended: (From 08/2019 to 07/2020)

International Conferences	National Conferences	International Workshops	National Workshops	FDPs
—	2	—	2	7

(c) No. of Conferences/Workshops/FDPs Organized: (From 08/2019 to 07/2020)

International	National Conferences	International	National	FDPs

Conferences		Workshops	Workshops	
—	—	—	—	

d) Research Funding Projects:

Year	Title of the Project	Type of Project	Funded Agency	Project Value
—	—	—	—	—

Category III

Supplementary Activities (Attached Additional Sheet, if required)

a) Awards and acknowledging certificates *(kindly attach supporting documents):*
(NET/SLET/M.Phil/Ph.D/IUCEE/NPTEL/Other 5)

b) Counseling of Students:

(i) Total no. of Regular students Allotted : 17 (ii) Total no. of students cleared all the subjects: 14

(ii) No. of Backlog Students Allotted : 04 (iv) No. of Students cleared Backlogs: 03

c) Roles and contributions in Institutional Governance and administration (Tick whichever is applicable)

Head of the Department/Department T&P Coordinator/ NSS Coordinator/Women Grievance Cell Coordinator/ Assistant Head of the Department/ Website Coordinator/ Institutional Criteria Coordinator of NBA & NAAC College Level Admissions/Time-Table Coordinator/IQAC Coordinator/ Alumni Association Coordinator/ CoE/Exam Cell Staff/Any other Institutional Level Coordinator role assigned by Principal (Please specify.....—.....)

(d) Regularity assessment of Faculty/Leave Details (From 08/2019 to 07/2020)

CL	ML	CCL	EL	Other Leaves (Academic/Mat. Leave/Paternity Leave	Loss of Pay due	Loss of Pay due to biometric deviations
9	3	2	—	—	—	—

e) Other activities Inside/Outside the campus towards development of self & students:
- Maintaining Personal Blog to share subject related info. with students.

f) Contribution to Department:

f) Contribution to Institution:
- working as Criteria-3 Coordinator for NBA work

h) Any other Information

Recommended

Remarks of HoD

Signature of Faculty

Remarks/Recommendations of Principal

Signature of Head of the Department

Recommended for three increments

Signature of Principal

Figure B.5.8.f: Sample filled Faculty Appraisal CAYm1 (2019-20)

5.9. Visiting/Adjunct/Emeritus Faculty etc. (10)

Adjunct faculty also includes Industry experts. Provide details of participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty etc. for all the assessment years:

• Provision of inviting/having visiting/adjunct/emeritus faculty (1)
• Minimum 50 hours per year interaction with adjunct faculty from industry/retired professors etc.
(Minimum 50 hours interaction in a year will result in 3 marks for that year;
3 marks x 3 years = 9 marks)

In order to bridge the gap between the industry and the students, experts from different industries are used as a provision to impart a good blend of theoretical and practical knowledge to the students to the current needs of IT industry. This has helped students in securing placements in core companies. The adjunct faculties are involved in academic research throughout the academic year, improvement of teaching-learning processes. They contribute to the institution through the participation in various areas like teaching-mentoring students and faculty and R&D activities.

CAY (2020-21)

Sl. No.	Name of the adjunct faculty with affiliation	Name of the course	Interaction Hours
1.	Prof. A. Sesha Rao, Scientist C, NSTL, DRDO Visakhapatnam Ex. Senior Professor (CSE) GMR IT.	Applications of Deep Learning for Cyber Security	55
Total hours of interaction			55

Table B.5.9.a: Visiting/Adjunct/Emeritus Faculty etc. CAY (2020-21)

CAYm1 (2019-20)

Sl. No.	Name of the adjunct faculty with affiliation	Name of the course	Interaction Hours
1.	Prof. A. Sesha Rao, Scientist C, NSTL, DRDO Visakhapatnam Ex. Senior Professor (CSE) GMR IT.	Deep learning	58
Total hours of interaction			58

Table B.5.9.b: Visiting/Adjunct/Emeritus Faculty etc. CAYm1 (2019-20)

CAYm2 (2018-19)

Sl. No.	Name of the adjunct faculty with affiliation	Name of the course	Interaction Hours
1.	Prof. A. Sesha Rao, Scientist C, NSTL, DRDO Visakhapatnam Ex. Senior Professor (CSE) GMR IT	Cyber Security	53
Total hours of interaction			53

Table B.5.9.c: Visiting/Adjunct/Emeritus Faculty etc. CAYm2 (2018-19)

CAYm3 (2017-18)

Sl. No.	Name of the adjunct faculty with affiliation	Name of the course	Interaction Hours
1.	Prof. A. Sesha Rao, Scientist C, NSTL, DRDO Visakhapatnam Ex. Senior Professor (CSE) GMR IT	Artificial Neural Networks	58
Total hours of interaction			58

Table B.5.9.d: Visiting/Adjunct/Emeritus Faculty etc. CAYm3 (2017-18)

CRITERION 6	Facilities and Technical Support	80

6.1	Adequate and well-equipped laboratories, and technical manpower	30M
6.2	Additional facilities created for improving the quality of learning experience in laboratories	25M
6.3	Laboratories: Maintenance and overall ambiance	10M
6.4	Project laboratory	5M
6.5	Safety measures in laboratories	10M

6.1. Adequate and well-equipped laboratories and technical manpower (30)

The Department of Computer Science and Engineering has well established computer laboratories that excel in enriching the practical knowledge of students in solving complex problems with excellent coding skills. The computer labs are primarily used to deliver the practical courses of undergraduate students of the Computer Science and Engineering (CSE) program and first year courses. All the computer labs are equipped with adequate hardware and software to run program specific curriculum and off-program curriculum. Each lab operates on a specific schedule, two sessions (three periods per session) per day accommodating more than 60 students per batch. The lab courses are handled by experienced faculty to ensure the attainment of Course Outcomes which in turn contribute to POs and PSOs.

The facilities available in the laboratories are mentioned in detail in the following table B.6.1.

Sr. No	Name of the Laboratory	Number of students per set up (Batch Size)	Name of the Important Equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	Basic Programming Lab	1:1 (Batch Size 65)	Dell Vostro, Intel Core i3 4150 CPU @3.5 GHz, 8 GB RAM, 1 TB HDD, LCD Monitor	Semester I 33 Hours per week Semester II 30 Hours per week **Utilization: 75%**	Mrs. S. Pushpa Latha	Programmer	B. Tech
2	Advance Programming Lab	1:1 (Batch Size 65)	Dell Vostro, Intel Core i3 4150 CPU @3.5 GHz, 8 GB RAM, 1 TB HDD, LCD Monitor	Semester I 21 Hours per week Semester II 24 Hours per week **Utilization: 62%**	Ms. K. Baby Kumari	Programmer	B. Tech
3	Database and Design Lab	1:1 (Batch Size 65)	Dell Vostro, Intel Core i3 4150 CPU @3.5 GHz, 8 GB RAM, 1 TB HDD, LCD Monitor	Semester I 21 Hours per week Semester II 21 Hours per week **Utilization: 58%**	Mr. K.Uday Shankar	Programmer	B. Tech

4	Network Programming Lab	1:1 (Batch Size 65	Dell Vostro, Intel Core i3 4150 CPU @3.5 GHz, 8 GB RAM, 1 TB HDD, LCD Monitor	Semester I 21 Hours per week Semester II 24 Hours per week **Utilization: 62%**	Ms. K. Chaya Devi	Programmer	B. Tech

Table B.6.1: Lab facilities and technical manpower

Figure B.6.1.a: Basic Programming Lab

Figure B.6.1.b: Advance Programming Lab

Figure B.6.1.c: Database and Design Lab

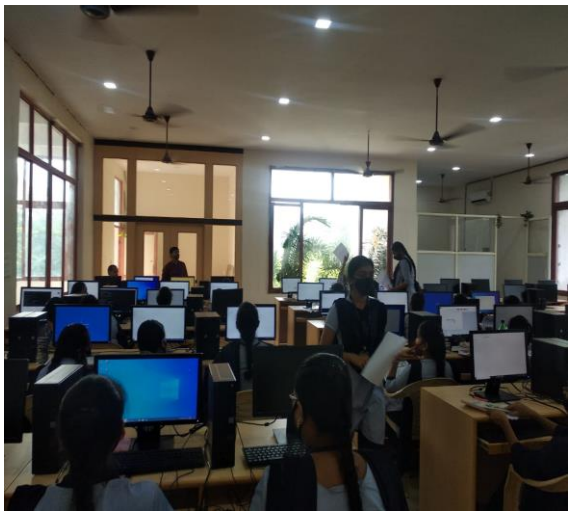


Figure B.6.1.d: Network Programming Lab

6.2. Additional facilities created for improving the quality of learning experience in laboratories (25)

The computer labs with sufficient number of computers with high-speed internet connectivity are available for students to use. The laboratories are equipped with UPS, high speed internet and LCD projector for effective demonstration. To make the lab sessions more effective and to enhance the technical and communications skills of the students, additional facilities are provided in the laboratories which are described below.

Sr. No.	Facility Name	Name of the Important Equipment details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	APSSDC CM Skill Centre of Excellence Lab (Institute Level Facility)	**36 LAPTOPS** ACERTMP249-G2M Intel Core i5 7200U CPU 2.50 GHz,16 GB RAM and 500 GB HDD	• To improve the skills in emerging technologies. • To learn additional courses beyond the curriculum for continuous improvement. • Placement training.	Utilization: 66% **Certification Courses:** • Machine Learning using Python • Source code Management using GIT & GITHUB • Data Analytics with Machine Learning • Source code Management using GIT & GITHUB	Emerging technologies like Android, Data Analytics, Web Development Internet of Things, Gaming applications etc.,	PO1, PO2, PO3, PO5, PO9, PO10, PO12. PSO1, PSO2.
2	Internet of Things (IoT) Lab (Shared lab for CSE & IT)	The lab is equipped with **24** systems and other equipment sponsored by Texas Instruments. ATX Cabinet, Core2 Duo Processor 2.66 GHz Zebronics 17.3” TFT	• To solve the challenges of society and industrial needs with the technology by developing IoT projects.	Utilization: 58% **List of Projects:** • Smart parking system • Smart irrigation through iot • Realtime mask recognition	Developing applications and prototype models by using IoT.	PO1 to PO6, PO9 to PO12. PSO1, PSO2.

		CC3200 Simple Link Wi-Fi Launch pad EK-TM4C129EXL MSP 430 EXP G2 Launch Pad RF Booster Pack CC110L 37 Sensors Kit BBONE-BLACK-WIRELESS				
3	Embedded Systems Lab	The lab is equipped with **30 systems**, Microcontrollers, Arduino boards and sensors like IR sensor, PIR sensor, servo motors ultrasonic sensor, etc. ATX Cabinet,Core2 Duo Processor 2.66 GHz Processor Zebronics 17.3" TFT	• To bring the awareness of embedded systems design tools and hardware programming.	Utilization: 40% **List of Projects:** • Bluetooth controlled Robot using Android Mobile	Students perform development activities like product development, embedded prototypes etc to enhance knowledge in AI and IoT.	PO1 to PO6, PO9 to PO12. PSO1, PSO2.
5	Smart lab facility	All the labs are equipped with LCD projector, white board.	• To enhance the teaching learning process.	As per the requirement of lab curriculum.	Students can better understand the logical part of programs and can improve their technical skills to implement.	PO5, PO10.
6	Placement Practice (Institute Level Facility)	Placement practice sessions are conducted to the students during T&P activities in free slots of the laboratories.	• To conduct practice sessions for campus recruitment drives • Students can attend mock online tests of top MNCs like TCS Campus Commune, Hackathon etc., to test and improve their technical skills.	• Online exams • Practice sessions	Campus recruitment training and total number of placements.	PO9, PO10, PO12. PSO1, PSO2.

7	Common Internet Facility	Ethernet/Wi-Fi	• Facility for students to self-learning /Seminars / Presentations / Solve assignments /documentation.	Unlimited time.	More knowledge specified in and apart from curriculum, continuous access to learning resources, motivation towards research and exposure to innovations.	PO1 to PO5, PO12. PSO2
8	Virtual lab	Virtual lab websites	• To learn how to use software and hardware resources virtually.	Depends on requirement.	Exposure of students to virtual learning of lab courses	PO1 to PO5 PO12. PSO1, PSO2.
9	Research and Development Lab	The lab is equipped with **15** systems with seamless internet facility Dell Vostro, 8th Gen Intel Core i3 4150 CPU @3.5 GHz, 8 GB RAM, 1 TB HDD, LCD Monitor-18”	• To learn additional courses beyond the curriculum for continuous improvement in the emerging technologies. • Encouraging the faculty pursuing PhD for research activities.	Depends on requirement.	Students are encouraging to do paper publications for projects developed along with faculty guide.	PO9, PO10, PO12. PSO1, PSO2

Table B.6.2: Additional facilities

6.3 Laboratories: Maintenance and overall ambience

Laboratories: Maintenance

All labs in the Department of Computer Science and Engineering are well equipped and have advanced computing facilities to satisfy the curriculum requirements. The student-computer ratio in the lab session is 1:1. Adequate number of Technical Staff is available for regular maintenance of systems and software. For effective utilization and to monitor periodic maintenance, a Lab Monitoring Committee (LMC) is constituted with the Head of the Department as a Chairman and two senior faculty members.

The major responsibilities of LMC are:

- Periodic maintenance of all computer laboratories is done for effective working of all resources.
- The committee members verify the maintenance registers, stock registers, lab schedule, lab manuals and records, resource availability and requirements etc.
- The LMC offers suggestions and actions for continuous improvement. Figure B.6.3a shows the process of lab maintenance.

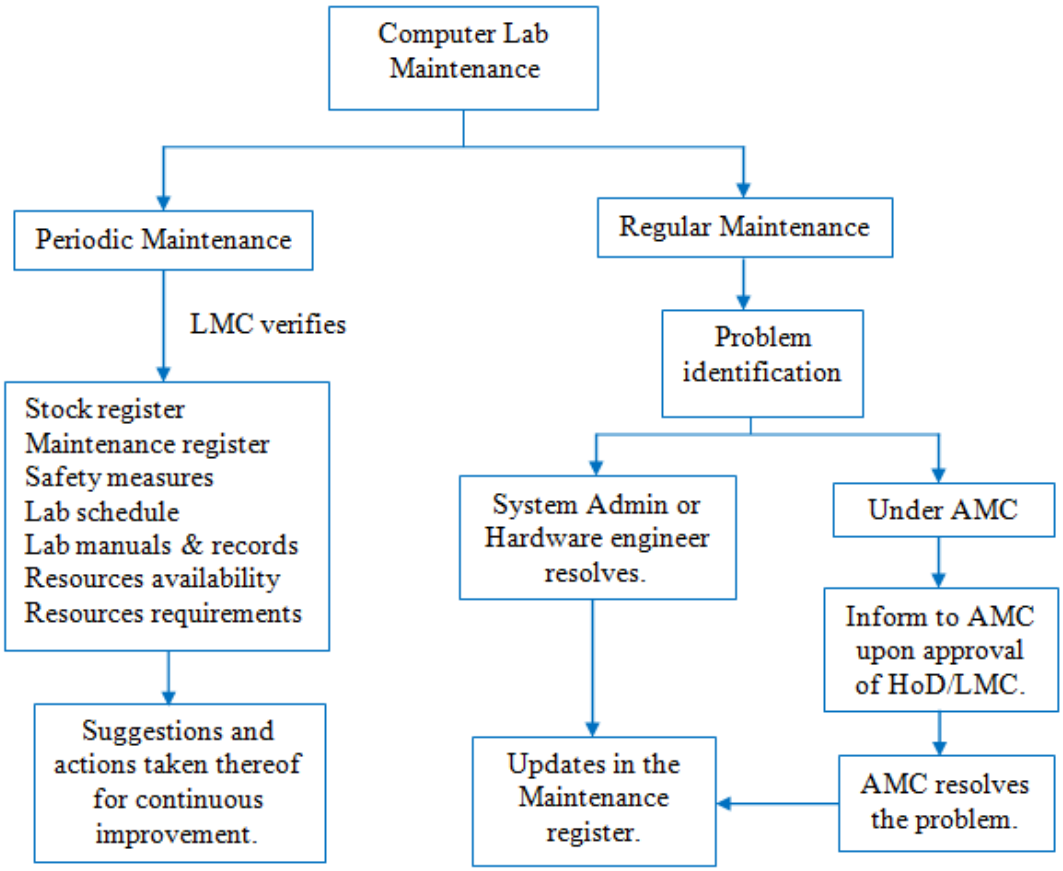


Figure B.6.3.a: Process of Lab Maintenance

- For regular maintenance of the computer laboratories, certain registers such as the Maintenance register, Stock register, Movement register, Log register and Feedback register are maintained.

  Maintenance Register: The maintenance and log of the consumables and non-consumables is recorded by the system administrators in the maintenance register.

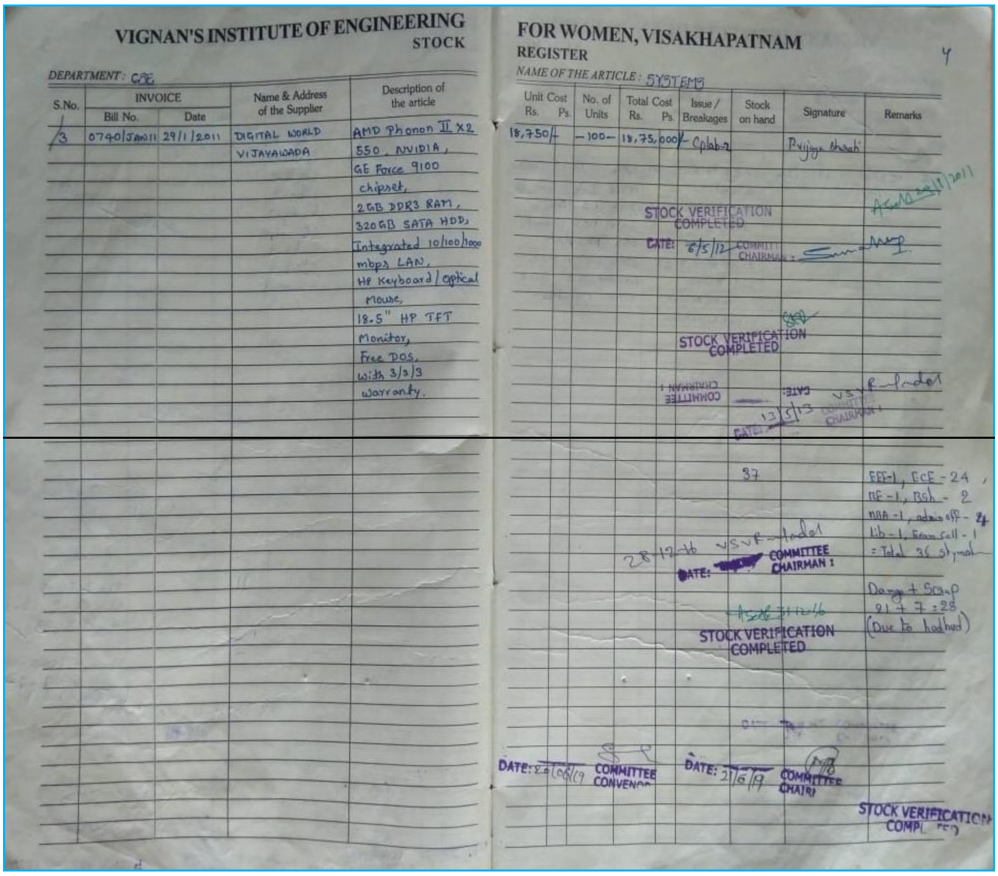
  Stock Register: Stock register is maintained to record all the purchases of software and hardware resources. Institute level computer systems information is also documented in the stock register.

  Movement Register: Movement register is maintained to note the peripherals taken for servicing by AMC. It also contains the record of computer peripherals which are given to other departments.

  Log Register*:* Each laboratory contains a Log register to note login and logout timings of the students.
- Laboratories are kept open beyond working hours whenever required with necessary technical staff.

Stock Verification Committee:

For every two years the Stock Verification Committee will be constituted by the Head of the Institution to audit all the lab equipment and infrastructure. The committee will submit a Deficiency report to the principal.



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN, VISAKHAPATNAM

STOCK REGISTER

DEPARTMENT: CSE

NAME OF THE ARTICLE: SYSTEMS

S.No.	INVOICE Bill No.	INVOICE Date	Name & Address of the Supplier	Description of the article	Unit Cost Rs. Ps.	No. of Units	Total Cost Rs. Ps.	Issue / Breakages	Stock on hand	Signature	Remarks
3	0740/Jan11	29/1/2011	DIGITAL WORLD VIJAYAWADA	AMD Phenom II X2 550, NVIDIA, GE Force 9100 chipset, 2GB DDR3 RAM, 320GB SATA HDD, Integrated 10/100/1000 mbps LAN, HP Keyboard / optical mouse, 18.5" HP TFT Monitor, Free DOS, with 3/3/3 warranty.	18,750/-	100	18,75,000/-				

STOCK VERIFICATION COMPLETED

DATE: 6/5/12 COMMITTEE CHAIRMAN:

STOCK VERIFICATION COMPLETED

DATE: COMMITTEE CHAIRMAN:

37

28/12/16 VSVF

DATE: COMMITTEE CHAIRMAN:

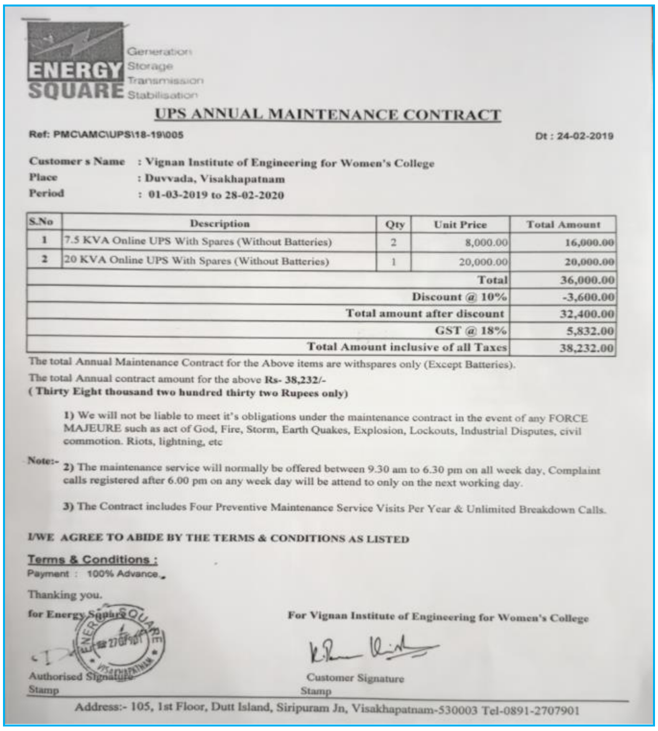
STOCK VERIFICATION COMPLETED

DATE: 26/06/19 COMMITTEE CONVENOR

DATE: 27/6/19 COMMITTEE CHAIR

STOCK VERIFICATION COMPLETED

Figure 6.3.b: Sample page of Stock Verification Completed Register



ENERGY SQUARE Generation Storage Transmission Stabilisation

UPS ANNUAL MAINTENANCE CONTRACT

Ref: PMC\AMC\UPS\18-19\005 Dt : 24-02-2019

Customer s Name : Vignan Institute of Engineering for Women's College
Place : Duvvada, Visakhapatnam
Period : 01-03-2019 to 28-02-2020

S.No	Description	Qty	Unit Price	Total Amount
1	7.5 KVA Online UPS With Spares (Without Batteries)	2	8,000.00	16,000.00
2	20 KVA Online UPS With Spares (Without Batteries)	1	20,000.00	20,000.00
			Total	36,000.00
			Discount @ 10%	-3,600.00
			Total amount after discount	32,400.00
			GST @ 18%	5,832.00
			Total Amount inclusive of all Taxes	38,232.00

The total Annual Maintenance Contract for the Above items are withspares only (Except Batteries).
The total Annual contract amount for the above **Rs- 38,232/-**
(Thirty Eight thousand two hundred thirty two Rupees only)

Note:-

1) We will not be liable to meet it's obligations under the maintenance contract in the event of any FORCE MAJEURE such as act of God, Fire, Storm, Earth Quakes, Explosion, Lockouts, Industrial Disputes, civil commotion. Riots, lightning, etc

2) The maintenance service will normally be offered between 9.30 am to 6.30 pm on all week day, Complaint calls registered after 6.00 pm on any week day will be attend to only on the next working day.

3) The Contract includes Four Preventive Maintenance Service Visits Per Year & Unlimited Breakdown Calls.

I/WE AGREE TO ABIDE BY THE TERMS & CONDITIONS AS LISTED

Terms & Conditions :
Payment : 100% Advance.

Thanking you.

for Energy Square

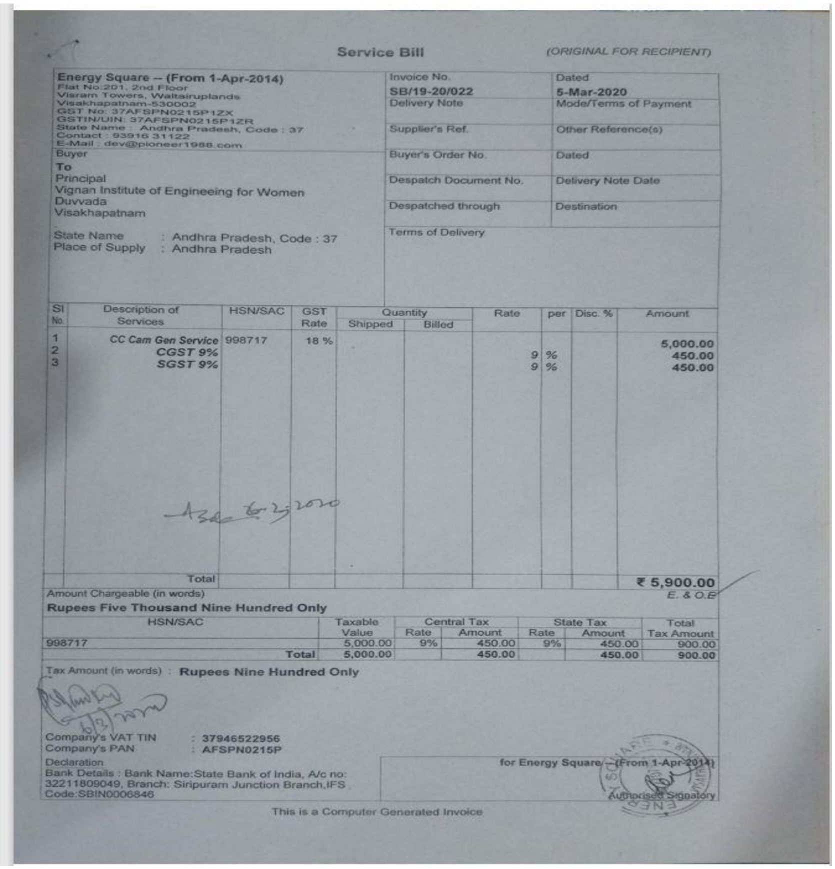
For Vignan Institute of Engineering for Women's College

Authorised Signature
Stamp

Customer Signature
Stamp

Address:- 105, 1st Floor, Dutt Island, Siripuram Jn, Visakhapatnam-530003 Tel-0891-2707901

Figure 6.3.c: Sample bill –AMC of UPS



Service Bill (ORIGINAL FOR RECIPIENT)

Energy Square -- (From 1-Apr-2014)
Flat No:201, 2nd Floor
Visram Towers, Waltairuplands
Visakhapatnam-530002
GST No: 37AFSPN0215P1ZX
GSTIN/UIN: 37AFSPN0215P1ZR
State Name : Andhra Pradesh, Code : 37
Contact : 93916 31122
E-Mail : dev@pioneer1988.com

Buyer
To
Principal
Vignan Institute of Engineeing for Women
Duvvada
Visakhapatnam

State Name : Andhra Pradesh, Code : 37
Place of Supply : Andhra Pradesh

Invoice No. SB/19-20/022	Dated 5-Mar-2020
Delivery Note	Mode/Terms of Payment
Supplier's Ref.	Other Reference(s)
Buyer's Order No.	Dated
Despatch Document No.	Delivery Note Date
Despatched through	Destination
Terms of Delivery	

Sl No.	Description of Services	HSN/SAC	GST Rate	Quantity Shipped	Quantity Billed	Rate	per	Disc. %	Amount
1	*CC Cam Gen Service*	998717	18 %						5,000.00
2	*CGST 9%*					9	%		450.00
3	*SGST 9%*					9	%		450.00
	Total								₹ 5,900.00

Amount Chargeable (in words) E. & O.E
Rupees Five Thousand Nine Hundred Only

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
998717	5,000.00	9%	450.00	9%	450.00	900.00
Total	5,000.00		450.00		450.00	900.00

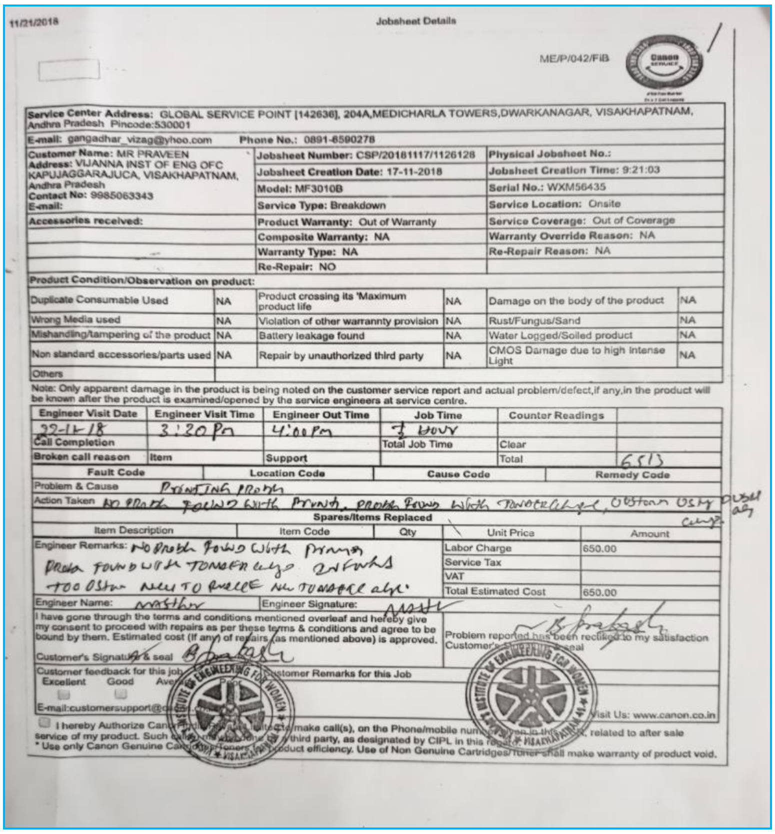
Tax Amount (in words) : **Rupees Nine Hundred Only**

Company's VAT TIN : 37946522956
Company's PAN : AFSPN0215P
Declaration
Bank Details : Bank Name:State Bank of India, A/c no: 32211809049, Branch: Siripuram Junction Branch,IFS Code:SBIN0006846

for Energy Square -- (From 1-Apr-2014)
Authorised Signatory

This is a Computer Generated Invoice

Figure 6.3.d: Sample bill – Receipt for Printer



11/21/2018 Jobsheet Details

ME/P/042/FIB

Service Center Address: GLOBAL SERVICE POINT [142636], 204A,MEDICHARLA TOWERS,DWARKANAGAR, VISAKHAPATNAM, Andhra Pradesh Pincode:530001
E-mail: gangadhar_vizag@yhoo.com Phone No.: 0891-6590278

Customer Name: MR PRAVEEN Address: VIJANNA INST OF ENG OFC KAPUJAGGARAJUCA, VISAKHAPATNAM, Andhra Pradesh Contact No: 9985063343 E-mail:	Jobsheet Number: CSP/20181117/1126128	Physical Jobsheet No.:
	Jobsheet Creation Date: 17-11-2018	Jobsheet Creation Time: 9:21:03
	Model: MF3010B	Serial No.: WXM56435
	Service Type: Breakdown	Service Location: Onsite
Accessories received:	Product Warranty: Out of Warranty	Service Coverage: Out of Coverage
	Composite Warranty: NA	Warranty Override Reason: NA
	Warranty Type: NA	Re-Repair Reason: NA
	Re-Repair: NO	

Product Condition/Observation on product:

Duplicate Consumable Used	NA	Product crossing its 'Maximum product life	NA	Damage on the body of the product	NA
Wrong Media used	NA	Violation of other warrannty provision	NA	Rust/Fungus/Sand	NA
Mishandling/tampering of the product	NA	Battery leakage found	NA	Water Logged/Soiled product	NA
Non standard accessories/parts used	NA	Repair by unauthorized third party	NA	CMOS Damage due to high intense Light	NA
Others					

Note: Only apparent damage in the product is being noted on the customer service report and actual problem/defect,if any,in the product will be known after the product is examined/opened by the service engineers at service centre.

Engineer Visit Date	Engineer Visit Time	Engineer Out Time	Job Time	Counter Readings	
22-11-18	3:20 Pm	4:00 Pm	½ Hour		
Call Completion			Total Job Time	Clear	
Broken call reason	Item	Support		Total	6513

Fault Code	Location Code	Cause Code	Remedy Code

Problem & Cause: Printing Problem
Action Taken: [illegible]

Spares/Items Replaced

Item Description	Item Code	Qty	Unit Price	Amount
Engineer Remarks: [illegible]			Labor Charge	650.00
			Service Tax	
			VAT	
			Total Estimated Cost	650.00

Engineer Name: [illegible] Engineer Signature:

I have gone through the terms and conditions mentioned overleaf and hereby give my consent to proceed with repairs as per these terms & conditions and agree to be bound by them. Estimated cost (If any) of repairs (as mentioned above) is approved.
Customer's Signature & seal

Problem reported has been rectified to my satisfaction
Customer's Signature & seal

Customer feedback for this job: Excellent Good Average Poor
Customer Remarks for this Job
E-mail:customersupport@...
Visit Us: www.canon.co.in

I hereby Authorize Canon India Private Limited to make call(s), on the Phone/mobile number given in this form, related to after sale service of my product. Such call(s) may be done by a third party, as designated by CIPL in this regard.
* Use only Canon Genuine Cartridges/Toners for product efficiency. Use of Non Genuine Cartridges/Toner shall make warranty of product void.

Figure 6.3.e: Sample bill – Onsite Service Service Receipt from AMC

Overall Ambience

- All computer laboratories are equipped with state-of-the-art equipment to meet the requirements of the curriculum.
- All laboratories have enough natural, proper ventilation with tube lights and fan arrangement.
- All laboratories are well furnished.
- Overall ambience of laboratory is good:
  - ✓ All old records and stationery are given for recycling periodically through vendors.
  - ✓ All the damaged CPUs, Monitors and other equipment are disposed of to third party vendors as and when they are obsolete.
  - ✓ Every lab is provided with sufficent number of dust bins.
  - ✓ Housekeeping team clean the laboratories on regular basis
- Laboratory manuals are prepared and are available in hard copy in each lab.

6.4 Project Laboratory

The Department provides a project laboratory for faculty and students to implement their project ideas as executable projects.

- Project laboratory comprises of 30 well configured systems with following specifications:
  System specifications: Dell Vostro, Intel Corei3-8100 CPU@3.60 GHz, 8GB RAM, 1TB HDD.
  Software: Python 3.6, JDK1.8, Anaconda, WEKA, MATLAB, RStudio, IBM Rational Rose, Oracle 10g, Tomcat etc., and basic softwares like MS Office, Adobe Reader, WinRar etc.,
- This lab has an additional feature of ICT which includes projector, white board, high speed internet etc. Internet of Things (IoT) and Embedded Systems labs are additional labs provided to students to complete their project work.
- Several projects have been successfully completed by the students at the project laboratory. With the available resources in the project lab, they have been able to conduct investigations in various research areas like Machine Learning, Image Processing, Network Security etc., and developed solutions to the various real time problems.

List of student quality projects of CAY (2020-21):

Sr.No.	Regd. No	Name of the students	Project Title	Relevance to POs &PSOs
1	17NM1A0504	Agathamudi Manasa	Image Sketching Application using Open CV & Python	PO1-PO12 PSO1
	17NM1A0545	Gadidala Vathsalya		
	17NM1A0518	Bhimuni Bhargavi		
	17NM1A0536	Dandabathini Ankitha		
	17NN1A05B5	Vuppala Manisha		
2	17NM1A0548	Gantla Joshna	Covid-19 Epidemic Analysis using Machine Learning	PO1-PO12 PSO1
	17NM1A0501	A V K Pravallika		
	17NM1A0559	Jakkuva Manasa		
	17NM1A0558	Isukapatla Ramya		
	17A61A0507	Challa Renuka Devi		
3	17NM1A0546	Gali Tejaswini	Android Malware Detection using Machine Learning	PO1-PO12 PSO2
	17NM1A0528	Ch Monisha		
	17NM1A0513	Baliboyena Divya		
	17NM1A0538	Dulam Layasree		
	17NM1A0506	Alluri Bhavana		
4	17NM1A0554	Gorusu Sravani	Machine Learning Model for Prediction of Post Graduate Admissions	PO1-PO12 PSO1
	17NM1A0542	E Harsha Vardhini		
	17NM1A0540	Dwarapudi Joshitha		
	17NM1A0534	Dadala Charanya		
5	17NM1A0561	Jerripothula Nadiya	Authentication of Credit Card using Face Recognition	PO1-PO12 PSO2
	17NM1A0511	Arnipalli Shivani		
	17NM1A0526	Boyidi Supriya		
	17NM1A0541	E Sirisha Rani		
6	17NM1A0551	G Ananda Bhavani	An Expertise Machine Learning Model to Predict the Heart Failure in Patients	PO1-PO12 PSO1
	17NM1A0517	Behara Anusha		
	17NM1A0530	Chintada Alekhya		
	17NM1A0544	G Poojitha Sri Lakshmi		
7	17NM1A0532	Choppa Nandini	Relative Envision to Prognosis the Rarest Parkinson's Disease using Machine Learning Techniques	PO1-PO12 PSO1
	17NM1A0515	Basana Harshini		
	17NM1A0524	Bonam Roshini		
	16NM1A0580	N Balamaheswari		
8	17NM1A0520	Bodda Akhila	Signature Verification using Image processing and Neural Network	PO1-PO12, PSO2
	17NM1A0553	Gompa Nikhila		
	17NM1A0503	Addala Lakshmi		
	17NM1A0555	Gullipalli Jahnavi		
9	17NM1A0562	Joba Kumari	Calculate the Propinquity for Human Faces	PO1-PO12, PSO2
	17NM1A0533	D Priya		
	17NM1A0508	Anga Deepika		
	17NM1A0543	G Nagamani		
10	17NM1A0556	G Sai Chandana	Elliptical Curve Cryptography for Data Confidentiality with Output Feedback Mode	PO1-PO12 PSO1
	17NM1A0537	Deredla Vineetha Sri		
	17NM1A0550	Gavva Rani		
	17NM1A0523	B L A Kiranmai		

11	17NM1A05B9	Palli Vasanthi	Image Depixelizer	PO1-PO12 PSO2
	18NM5A0506	K Uma Sai Sirisha		
	17NM1A0565	K Hari Swetha		
	17NM1A0597	M Ratna Shivani		
	17NM1A05B9	K Bhagyavarsha		
12	17NM1A0594	Lanka Sruthi	Real-time Stress Detection using CNN	PO1-PO12 PSO2
	17NM1A0573	K Vijaya Varshini		
	17NM1A0571	Kalla Divya		
	17NM1A05B5	Nukala Sruthii		
	17NM1A05A5	M Shailaja Preethi		
13	17NM1A0564	J Sai Harshitha	Automated Detection of covid-19 cases using Deep Neural Networks with X-Ray images	PO1-PO12 PSO2
	17NM1A05A0	M Rithwikaa		
	18NM5A0503	Kalla Pavani		
	17NM1A0585	K Ch Chowdary		
	17NM1A05B1	N S S Krishna		
14	17NM1A05A7	N Swarupa	Loan Application Analysis using Machine Learning	PO1-PO12 PSO2
	18NM5A0509	M Padmaja		
	17NM1A0569	Kalepu Sreeja		
	17NM1A05B0	N Ramadevi		
	17NM1A0583	Kolli Sowjanya		
15	17NM1A05A2	M Jyothsna	Near Lossless Medical Image Compression using Block BWT-MTF and Hybrid Fractal Compression techniques	PO1-PO12 PSO2
	18NM5A0502	B Yamuna Kumari		
	17NM1A0586	K Srivallika		
	17NM1A0574	K Tanuja		
16	17NM1A0590	K Vennela	Fire and Smoke Recognition using Deep Learning	PO1-PO12 PSO2
	17NM1A0591	K Divya		
	17NM1A05A8	N Anusha		
	17NM1A0566	K Lavanya		
17	17NM1A0567	K Joga Sandhya	Image Haze Removal using Dark Channel Prior	PO1-PO12 PSO2
	17NM1A05B8	Palem Sushma		
	17NM1A05B4	Natti Poornima		
	17NM1A05A6	M R L Charanmai		
18	17NM1A0568	Kalaga Sahitya	Traffic Sign Recognition with R-CNN	PO1-PO12 PSO2
	17NM1A0579	Karaka Jyoshna		
	17NM1A0584	K Satya Priya		
	17NM1A0580	Karanam Pooja		
19	17NM1A0581	Kola Lavanya	Secure File Storage in Cloud using Hybrid Cryptography	PO1-PO12 PSO1
	17NM1A05A9	Nallana Poojitha		
	18NM5A0508	Kundrapu Pavani		
	17NM1A0587	Konda Basheera		
20	17NM1A0596	Maddi Annapurna	Marketing Channel Attribution with Markov Chains in Python	PO1-PO12 PSO2
	17NM1A0592	K Leelavathi		
	17NM1A05A3	M Uma Maheswari		
	18NM5A0504	Kambala Hema		
21	17NM1A0595	M Saimounica	Triple Level User Authentication with Confidentiality	PO1-PO12 PSO1
	17NM1A05B3	N Sai Sandhya		
	17NM1A0588	Kosuri Lavanya		

	18NM5A0501	A Hemalatha		
22	17NM1A0589	K Hema Sri	Farmer Eco-Marketing System using Blockchain Technology	PO1-PO12 PSO2
	17NM1A05A1	M Sai Bhavana		
	17NM1A0593	L Trisha		
	18NM5A0505	K Poorna		
23	17NM1A05E0	R Bharathi Jyothi	Accuracy Analysis using Machine Learning Classifier for Hardware Trojan Detection	PO1-PO12 PSO1
	17NM1A05C1	Pappu Sri Sai Keerthi		
	17NM1A05F8	Srisailapu Sireesha		
	17NM1A05D2	Pulidindi Krishna Priya		
	17NM1A05F0	Seeramreddi Namratha		
24	17NM1A05F1	Silaparasetty Sushma	Fake User Detection Using Machine Learning Techniques	PO1-PO12 PSO2
	17NM1A05H3	V Vijaya Lakshmi		
	17NM1A05H6	Y D Naga Sai Bhanusri		
	18NM5A0519	Tekkali Roopa Sravani		
	17NM1A05F4	Singampalli Yamini		
25	17NM1A05D9	Rayudu L V Srujana	Music Genre Classification Using Deep Learning	PO1-PO12 PSO1
	17NM1A05E6	Sanapathi Bhagyasri		
	18NM5A0518	S Naga Laxmi Yamini		
	17NM1A05G9	Vasireddy Swapnika		
	17NM1A05H5	Yelleti Yamini		
26	17NM1A05D3	Pureti Likhitha	Sentiment Analysis Using Deep Neural Network On Movie Reviews	PO1-PO12 PSO2
	17NM1A05D0	Ponnada Bhavya		
	17NM1A05E7	Sanapathi Sravani		
	17NM1A05C2	Paricharla Lahari		
	17NM1A05H7	Y Bheemarasetti		
27	17NM1A05C5	P Rama Lakshmi	Helmet and License Plate Detection of two wheelers using Open CV and YOLOV5	PO1-PO12 PSO2
	18NM5A0514	Penaganti Devi		
	18NM5A0520	Vasupilli Harini		
	17NM1A05G6	V Kalpana		
	17NM1A05C4	P Jaya Chandrika		
28	17NM1A05E1	Rongali Tanuja	Social Distance Detection using Deep Learning	PO1-PO12 PSO2
	17NM1A05F3	S Sandhya Rani		
	17NM1A05D4	Pusapati Revathi		
	17NM1A05G7	V Kusumanjali		
	17NM1A05F9	S Vijayalaxmi		
29	17NM1A05H8	Chinta Meghana	Malaria Detection using Blood Smear Images	PO1-PO12 PSO2
	17NM1A05C7	P Sri Jyothi Meghana		
	17NM1A05F7	Sonti Jahanavi		
	17NM1A05C0	Pamula Gayathri		
30	18NM5A0516	Ramireddi Chandini	Stock Price Prediction Using Machine Learning using LSTM and Linear Regression	PO1-PO12 PSO1
	17NM1A05E5	Sanam Rupa Sri		
	18NM5A0513	N Krishna Veni		
	18NM5A0517	Sammingi Nirmala		
31	17NM1A05G0	Surada Haritha	Resume Screening using Natural Language Processing	PO1-PO12 PSO1
	17NM1A05C9	P Teja Sai Sree		
	18NM5A0521	M Priya Mounika		
	17NM1A05E4	S Sri Varshini		
	18NM5A0511	Nagala Chandini	Personality Prediction	PO1-PO12

32	17NM1A05C8	Pilla Mounika	from Social Media Posts	PSO2
	17NM1A05C6	P V Satya Likhitha		
	17NM1A05H0	Vedula Shaankari		

Table B.6.4.a: List of quality projects of CAY (2020-21)

List of student quality projects of CAYm1 (2019-20):

S.No	Regd.No	Student Name	Publication Title	Relevance to POs &PSOs
1.	16NM1A05E3	Dharmala Jhansi Reddy	Secure Key-Deduplication using Convergent Key Encryption	PO1-PO12 PSO1
	16NM1A05G3	Kunisetty Divyasri		
	16NM1A05F0	Gunuru Deva Harshini		
	16NM1A05G5	M. Nikitha		
2.	17NM5A0504	Galla Sailaja	Distributed Metadata Management for Large Storage Systems using Hierarchical Bloom Filter Arrays	PO1-PO12 PSO1
	16NM1A05D7	Buddha Niharika		
	17NM5A0513	Vindula Mani Chandana		
	16NM1A05D3	Bhavya Sri V		
3.	16NM1A05A9	S. Sravya	Fake news detection and comparison using machine learning algorithms	PO1-PO12 PSO1
	16NM1A0587	Yamini Patro		
	16NM1A05C6	Yerramsetty Vasantha		
	16NM1A0592	Pilla Pooja		
4.	16NM1A05E7	Galla Mounika	Object Match Swapping Detection of Facial Landmarks Using Local-based Information	PO1-PO12 PSO2
	16NM1A05F7	Kasu Anjali Reddy		
	17NM5A0506	Geddam Durgabhavani		
	16NM1A05D1	Budda Shivani		
5.	16NM1A0561	K. Yogitha	Offline handwritten character recognition uisng neural Networks	PO1-PO12 PSO2
	16NM1A0548	J. Swetha		
	16NM1A0539	G. Praharsha		
	16NM1A0523	Ch. Swapna		
6.	16NM1A05C0	Velaga Pratyusha	Replenish security through CARP technology	PO1-PO12 PSO1
	16NM1A05C1	Vurukuti Keerthi		
	16NM1A05B2	Sahithi Totharamudi		
	16NM1A0583	Palakurthi Anusha		
	16NM1A0573	Matta Roshini		
7.	16NM1A0593	P. Praveena	Information Retrival on Document Streams using Relevance Feedback Algorithm	PO1-PO12 PSO2
	16NM1A05B7	Vanamoju Prathyusha		
	16NM1A0577	M.Sailaja		
	16NM1A05B1	Pooja Thamira		
8.	17NM5A0512	U. Indhira	Smart rendering news article reader	PO1-PO12 PSO2
	16NM1A05E9	Guntureddy Kusuma		
	16NM1A05F8	Keerthi Hima Bindu		
	16NM1A05E0	Ch.Sai Rakshitha		
9.	16NM1A05C9	Adari Vindya Sree	A Novel Steganographic technique to Embed SST Encrypted Message using PGLM.	PO1-PO12 PSO1
	16NM1A05H2	Salapu Divya		
	16NM1A05C7	A.D.Ratnanjali Devi		
	16NM1A05H7	M. Tirumala Akanksha		

10.	16NM1A0596	P. Sowmya	An Efficient Transaction Memory Storage Management Model for Images	PO1-PO12 PSO1
	16NM1A05C3	Yegi Sriya		
	16NM1A0579	N. Bhagya Lakshmi		
	16NM1A0584	P.Jyothipriya		
11.	16NM1A0542	G. Priyanka	Attendance System Based on Face Recognition	PO1-PO12 PSO2
	16NM1A0545	G. Devi		
	16NM1A0543	G.Mounika		
	16NM1A0517	Beela Yajna Shireesha		
12.	16NM1A0531	D.Sirisha	Detection of Money Laundering in Online Social Networks	PO1-PO12 PSO1
	16NM1A0538	G. Rupa Santhi Sree		
	16NM1A0554	K. Mary Prathyusha		
	16NM1A0505	A. Sowmya Sri		
13.	16NM1A05E1	D. S. Haritha	Hiding of Captcha in a Colour Image using FNP Algorithm	PO1-PO12 PSO2
	16NM1A05G4	K Vijaya Lakshmi		
	17NM5A0503	Dharmala Vasantha		
	16NM1A05H0	Pothina Bhargavi		
14.	16NM1A0524	Navya Bharathi Ch S L	Retrieval of Featured Images Using Face Detection	PO1-PO12 PSO1
	16NM1A0527	Ramya Chukka		
	16NM1A0556	Kesanakurthi Chinni		
	16NM1A0553	K. Sai Praneetha		
15.	16NM1A0525	Ch.Deekshitha	A Three Layer Privacy Preserving Storage Scheme for Providing Security	PO1-PO12 PSO1
	16NM1A0557	K. Amrutha Sarvani		
	16NM1A0559	K. Sai Sadhana		
	16NM1A0560	K. Chaturya		
16.	16NM1A0510	Atta Lavanya	Age Estimation by Face Detection Using Convolution Neural Networks	PO1-PO12 PSO1
	16NM1A0530	D. Vandana Sri		
	16NM1A0518	Bera Mamala Sridevi		
	16NM1A0550	J.Poornima		
17.	16NM1A0502	G.Aishwaraya	Enhancing advance driver assistance system by detecting weather conditions using machine learning	PO1-PO12 PSO2
	16NM1A0512	B.Niharika		
	16NM1A0519	B.Surya Teja		
	16NM1A0511	B.Harika		
18.	16NM1A05D5	Bodda Jhansi Lakshmi	Ensemble clustering using dbscan and hdbscan	PO1-PO12 PSO1
	16NM1A05G6	Mns Roopa Sri		
	16NM1A05D2	Bagi Sai Keerthi		
	16NM1A05E5	Gajjela. Nithisha		
	16NM1A05E8	Gangupam Prashipta		
19.	16NM1A05G7	M. Keerthi	Food Calorie Estimation and Auto Bill Generation for Grocery products using YOLO Objects Detection	PO1-PO12 PSO1
	17NM5A0507	Majji Kasturi		
	16NM1A05H1	R. Lochana Saimamba		
	16NM1A05C8	A.Anusha		
20.	16NM1A05H3	Sathvika R	Handwritten Digit Recognition and Text Conersion Using MNIST Dataset	PO1-PO12 PSO2
	16NM1A05F6	Kavya Sree. K		
	16NM1A05F5	Kalla Raga Deepika		
	16NM1A05H9	Vennela Satya Priyanka		

21.	16NM1A0535	E. Deepika	Health monitoring system using rule based expert system	PO1-PO12 PSO2
	16NM1A0515	Bandaru Roshini Devi		
	16NM1A0514	B.Saritha		
	16NM1A0516	Basheerunnisa Begum		
22.	16NM1A0544	G Naga Sai Lalitya	Multimedia content protection system for cloud storage	PO1-PO12 PSO1
	16NM1A0537	G K Sowmya		
	16NM1A0547	Indala.Bhagyalakshmi		
	16NM1A0513	B. Soniya Shyne		
23.	16NM1A05G2	Kukra Usha	Pneumonia Detection by X-ray images using deep learning through CNN	PO1-PO12 PSO2
	16NM1A05G0	Kodali Sri Harsha		
	17NM5A0511	Surada Rajeswari		
	16NM1A05D6	B.V.S.S.Madhuri		
24.	17NM5A0505	Ganagalla Anusha	Reducing the Routing Overhead in Secure Mobile ADHOC Networks	PO1-PO12 PSO1
	17NM5A0510	Savalapu Girija		
	17NM5A0501	A. Rajeswari Laxmi		
	16NM1A05E6	Galla. Hyndavi		
25.	16NM1A05B4	T.Jaya	Sentiment Analysis on GST using Polarity Classification	PO1-PO12 PSO1
	16NM1A05A1	Repaka Sravani Sandhya		
	16NM1A0576	Mummina Pravalika		
	16NM1A05A3	S. Snigtha		
26.	16NM1A05D4	B Sai Sowmya	Machine Learning Approach for Forecasting Crop Yield Based on Climatic Parameters	PO1-PO12 PSO2
	16NM1A05D8	Chekuri Divya Sri		
	17NM5A0508	P Bala Rama Jyothi		
	16NM1A05E4	Doki Meghana		
27.	16NM1A0574	M.Samyuktha	A Secure Approach for Communication in Mobile Adhoc Networks	PO1-PO12 PSO1
	16NM1A05B5	T. Kusuma Sarika		
	16NM1A0581	Neelapu Sriranjini		
	16NM1A05C5	Yelleti Haritha		
28.	16NM1A0503	Soundarya Ampolu	Crack detection on concrete surfaces using image processing	PO1-PO12 PSO1
	16NM1A0563	Bhavana Koyya		
	16NM1A0533	Dunna Yamuna		
	16NM1A0501	Ahamed Unnisa		
29.	16NM1A0589	P. Veena Vaibhavi	Redundancy Control Data -Driven Approach for Cluster-Based Wireless Sensor Networks	PO1-PO12 PSO1
	16NM1A0595	P.Guna Varshini		
	16NM1A0597	Potnuru Ankitha		
	16NM1A0590	Penmatsa Lavanya		
30.	16NM1A0586	P. Harshitha	Traffic sign detection using convolutional neural networks	PO1-PO12 PSO2
	16NM1A0591	Manasa Perumalla		
	16NM1A05A0	Ravupalli Sai Priya		
	16NM1A0575	M. Joshna		

Table B.6.4.b: List of quality projects of CAYm1 (2019-20)

List of student quality projects CAYm2 (2018-19):

Sr.No.	Regd. No	Name of the students	Project Title	Relevance to POs& PSOs
1	15NM1A0559	Kotipalli Madhavi	Collaborative DDOS Mitigation based on Blockchain.	PO1-PO12 PSO2
	15NM1A0532	Gude Kalyani		
	15NM1A0515	Boida Padmavathi		
	15NM1A0526	Eada Mercy Joy		
2	15NM1A0503	Andavarapu Divya	Strip based currency Recognition System	PO1-PO12 PSO2
	15NM1A0516	Bonu Pavani		
	15NM1A0536	Gunna Moulika		
	15NM1A0505	Anjum Javeria		
3	15NM1A0556	Konagalla Sushmitha	Smart Refrigerator using IoT.	PO1-PO12 PSO1
	15NM1A0527	Edubilli Nagajyothi		
	15NM1A0506	Annu Pravallika		
	15NM1A0540	Jinaga Himabindu		
4	15NM1A0517	Chapa Bhanu Sri	K-Harmonic Means clustering algorithm for Data Stream in Agricultural IoT.	PO1-PO12 PSO1
	15NM1A0509	Asi Kavya Reddy		
	15NM1A0544	Kallepalli Rishitha		
	15NM1A0524	Dittakavi S PragnaSree		
5	15NM1A0551	Koduru TejaSree	Zolertia z1 energy usage simulation with Cooja simulator	PO1-PO12 PSO2
	15NM1A0542	Kadiyam Sudha Lakshmi		
	15NM1A0552	Kollepara Pallavi		
	15NM1A0520	Daki Sowjanya		
6	15NM1A0554	Kolusu Kiranmai	Controlling mouse operations through hand gestures	PO1-PO12 PSO2
	15NM1A0538	Issai Bhargavi		
	15NM1A0529	Gorli Ramya		
7	15NM1A0518	Chindada Lakshmi Sree	Traffic congestion Alert System and Vehicle Classification	PO1-PO12 PSO2
	15NM1A0531	G Sai Saranya		
	15NM1A0510	Bantu Pavani		
	15NM1A0512	B Kokila Hima Chandana		
8	15NM1A05B5	T. Pooja Naga Mounika	Rating prediction based on social sentiment from textual reviews	PO1-PO12 PSO1
	15NM1A0596	Ruby Kumari		
	15NM1A0576	N Lalitha Nagasai		
	15NM1A05A1	Shaik AshiaParvine		
9	15NM1A05C0	Vysyaraju Priyanka	Emotion based music player using SVM classifier	PO1-PO12 PSO1
	15NM1A0563	Lagudu Anuradha		
	15NM1A0561	KukkadapuPratyusha		
	15NM1A0595	Reddy Aruna Kumari		
	15NM1A05C1	Yamali Bharathi		
10	15NM1A0574	Nelluri Madhuri Sowjanya	Fault Detection in Fan using IoT and Data Mining	PO1-PO12 PSO1
	15NM1A05A9	Suvvari Vineetha		
	15NM1A0582	Penki Ashalatha		
	15NM1A0575	NethalaSowmyalatha		
11	15NM1A0578	Pagadala Sai Rajeevi	IoT Based Air Pollution Monitoring System Using Arduino	PO1-PO12 PSO1
	15NM1A0566	Mallem Susmitha		
	15NM1A05A2	Shaik Karishma		
	15NM1A0569	Mandarapu Pavani		
12	15NM1A0599	Seeramsetty Kavya	An efficient attendance management system based on face recognition	PO1-PO12 PSO2
	15NM1A0567	Mallina Kavitha		
	15NM1A05B3	Tentu Anusha		
	15NM1A0590	Pragada Sujatha		
13	15NM1A0584	PentakotaPrathyusha	Exploration of college	PO1-PO12

	15NM1A05B7	Vajja Sri Kavya	information through chatbot.	PSO1
	15NM1A0577	O N Durga Vara Manisha		
	15NM1A05B6	Tutta Vandana		
14	15NM1A0570	MasabattulaNeelima	Streetlight that glows on detecting the vehicle movement using image processing	PO1-PO12 PSO1
	15NM1A05B8	Vana Sharmila		
	15NM1A0571	Munasa Kusuma		
	15NM1A0562	KunchaSupriya		
	15NM1A05A3	Shaik Sana Sharifa		
15	15NM1A0565	MallaNavya	Instinctive media player using OpenCV.	PO1-PO12 PSO2
	15NM1A0573	NadimpalliSravya		
	15NM1A0589	Poluparthi Ramya		
	15NM1A0568	M Krishna Swetha		
16	15NM1A0598	Salapu Mohini Priyanka	Robust Iris recognition using Daugman's Localization.	PO1-PO12 PSO2
	15NM1A0585	PillaHima Sushma		
	15NM1A0594	RangalaTrilakshmi		
	15NM1A05B4	Thota Pravallika		
17	15NM1A0586	Pokuri Sri Lakshmi Kavya	User identification across multiple social networks	PO1-PO12 PSO1
	15NM1A05A0	Seerapu Gyana Priya		
	15NM1A0564	Macharla Harika		
	15NM1A05A4	S N S T Mahalakshmi		
18	16NM5A0508	Nagireddy Sowjanya	Early detection of cancer using Data Mining Techniques	PO1-PO12 PSO1
	16NM5A0503	Ellapu Yamini Priyanka		
	15NM1A05E2	Kotagiri Sneha		
	15NM1A05C3	B Deepika		
19	15NM1A05E1	K Laxmi Venkata Lahari	Kinship verification	PO1-PO12 PSO2
	15NM1A05C5	Dady Lalita		
	15NM1A05H6	Kalla Ganga Ratnam		
	15NM1A05F5	P Deekshita		
20	15NM1A05H5	Vurukooti Venkata Pavitra	A hierarchical approach for rain or snow removing in a single color image	PO1-PO12 PSO1
	14NM1A05C6	Dally		
	15NM1A05D4	Gollavilli Hema Anasari		
	15NM1A05D6	Grandhi Mahathi		
21	15NM1A05E5	Y. Lakshmi Soujanya	Face detection and age recognition using Viola Jones algorithm	PO1-PO12 PSO1
	15NM1A05G5	Rompalli Mounika		
	15NM1A05F1	Muddada Gayathri		
	15NM1A05C7	Dantuluri Ramya Sree		
22	15NM1A05E0	Kallempudi Gnanamai	Industrial Smart Power Strip	PO1-PO12 PSO2
	16NM5A0509	Potla Nookaratnam		
	15NM1A05C8	Dayala Geethika		
	15NM1A05F4	Ommi Mohana Keerthi		

Table B.6.4.c: List of quality projects of CAYm2 (2018-19)

List of student quality projects CAYm3 (2017-18):

Sr. No.	Regd. No	Name of the students	Project Title	Relevance to POs& PSOs
1	14NM1A0556	Korupolu Revathi	Students' technical performance and evaluation system	PO1-PO12 PSO2
	14NM1A0502	Allavarapu Dhineesha		
	14NM1A0531	Dungala Kanakaratnam		
	14NM1A0546	Karri Sowjanya		
2	14NM1A0526	Divvela Uma Maheswari	Performance analysis of Multiple Linear Regression and	PO1-PO12 PSO1
	14NM1A0543	K Lakshmi Prasanna		
	14NM1A0535	Gidla Lavanya		

	14NM1A0538	Gondesi Ojeswani	Artificial Neural Networks on Weather Dataset	
3	14NM1A0551	Kolli Madhavi	Implementation of DNA cryptography for Cloud Computing	PO1-PO12 PSO1
	14NM1A0536	Goddi Anusha		
	14NM1A0505	Bandaru Harshavarshini		
	14NM1A0527	D.VaraLakshmi Prasanna		
4	14NM1A0552	Konchada Sahana	A novel Steganography approach for hiding Text in color images using HSI color model	PO1-PO12 PSO1
	14NM1A0511	Budumuru Prasanthi		
	14NM1A0513	Chanchali Anitha		
	14NM1A0557	Kota Gayatri		
5	14N1MA0510	B. Venkata Vasundhara	Removal of image de-trop using diffusion based in painting	PO1-PO12 PSO2
	14NM1A0516	Chokkara Karishma		
	14NM1A0544	Kandregula Sai Mounica		
	14NM1A0520	Dasari Sai Prabha		
6	14NM1A0564	Maddi Sreeja Reddy	Intruder detection in data leakage using Least Significant Bit	PO1-PO12 PSO2
	14NM1A0580	Palli Gayatri		
	14NM1A0570	Mummuluri Rohini		
7	14NM1A05A5	V N S Lavanya	An Able agriculture nursing: The solicitation of wireless sensor networks with IoT.	PO1-PO12 PSO1
	14NM1A05A8	Velagala Poojasri Reddy		
	14NM1A0591	Rallapalli Anitha		
	14NM1A0571	Mylapalli Sravani Divya		
8	14NM1A0561	Lekkala Jaya Madhuri	Smart Parking System.	PO1-PO12 PSO1
	14NM1A05A9	Vootakuti Subhasri		
	14NM1A0562	Likitha Adari		
	14NM1A0584	Pilyanam Madhuri		
9	14NM1A0560	Landa Hemalatha	Abandoned bag detection in video surveillance using image processing	PO1-PO12 PSO1
	14NM1A05A4	Vanimina Renuka		
	14NM1A05A7	Varre Pavani		
	14NM1A0595	Seepana Santhoshi		
10	14NM1A0577	Obblareddy Sunitha	Real time security system using live video analysis	PO1-PO12 PSO1
	14NM1A05A6	V. M Raja Rajeswari		
	14NM1A0567	MathalaVinisha		
	14NM1A0572	Nambari Renusha Yadav		
11	14NM1A0576	Nuthi Venkata Sravani	Finding the associated factors causing chronic kidney disease using modified Apriori algorithm	PO1-PO12 PSO2
	14NM1A0573	N. Tejaswini Kala Pavani		
	14NM1A05B1	Yeduru Geetanjali		
	14NM1A0559	Kusumanchi Sirisha		
12	14NM1A05E2	M V P Hashwitha	A robust image quality enhancement technique Using DWT, SWT and NEDI	PO1-PO12 PSO1
	15NM5A0507	Indugubilli Swathi		
	14NM1A05D6	Kapuganti Supraja		
13	15NM5A0508	Jerripothula Sravani	Similarity detection in java programming assignments	PO1-PO12 PSO2
	14NM1A05G5	Venigalla Tejaswini		
	14NM1A05F6	Sirasapalli Monika		
	13NM1A05B3	Saragadam Vaishali		
14	15NM5A0511	Siriki Puspalatha	A real time face recognition system	PO1-PO12 PSO2
	14NM1A05D2	Gadiraju Sowmya		

	14NM1A05E4	Nakka Bhavani	using Deep Learning	
	14NM1A05E8	Penumatcha Sridharani		
15	14NM1A05D7	Keerthi Neerukonda	Design and analysis of a novel multi keyword search under secure data storage in cloud server	PO1-PO12 PSO1
	14NM1A05F8	Thamada Uma		
	14NM1A05C1	Bhupathiraju Swetha		
	14NM1A05G7	Y Sri Anjula		

Table B.6.4.d: List of quality projects of CAYm3 (2017-18)

The outcome of the Project Laboratory is:

- Students developed innovative and real time projects in the latest technologies like IoT, Data Mining, Machine learning etc.
- For the CAY 2020-21, students developed projects using IoT and Machine learning algorithms for providing solutions towards health and Security issues.
- For the CAYm1 2019-20, students developed projects using Machine learning algorithms for providing solutions towards health and societal issues.
- For the CAYm2 2018-19, students developed prototypes in IoT like Smart Dustbin, Air Pollution Monitoring System, Road Accident Alert System etc., to provide solutions for environmental issues.
- For CAYm3 2017-18, projects based on Network Security, Image processing are developed to solve the security issues.

Student Research Publications:

- The Project Laboratory is used to enhance the research activities among both students and faculty.
- Faculty motivates the students to publish the papers in refereed journals. The following are the publications by students in Project laboratory:

CAY (2020-21):

Sr. No.	Name of the author	Title of the paper	Journal name	Volume/ Issue ISSN, Month & Year	Relevance to POs & PSO
1	Gantla Joshna A V K Pravallika Jakkuva Manasa Isukapatla Ramya Challa Renuka Devi	Covid-19 Epidemic Analysis Using Machine Learning	International Journal of Innovations in Engineering and Technology	2319-105 Volume 19 Issue 4 July 2021	PO1-PO12 PSO1
2	G Sai Chandana Deredla Vineetha Sri Gavva Rani B L A Kiranmai	Elliptical Curve Cryptography for Data Confidentiality with Output Feedback Mode	Journal of Emerging Technologies and Innovative Research	2349-5162 Volume 8 Issue 7 July 2021	PO1-PO12 PSO1
3	A S Geetha	Application for	Mukt Shabd	2347-3150	PO1-PO12

	Bokka Sri Sai Manasa Dunna Sindhu Ch Sai Likhita	Generating Image Caption Using CNN model	Journal	Volume X Issue VII July 2021	PSO1
4	Gorusu Sravani E Harsha Vardhini Dwarapudi Joshitha Dadala Charanya	Machine Learning Model for Prediction of Post Graduate Admissions	Journal of Emerging Technologies and Innovative Research	2349-5162 Volume 8 Issue 7 July 2021	PO1-PO12 PSO1
5	G Ananda Bhavani Behara Anusha Chintada Alekhya G Poojitha Sri Lakshmi	An Expertise Machine Learning Model to Predict the Heart Failure in Patients	Juni Khyat	2278-4632 Volume 11 Issue 7 July 2021	PO1-PO12 PSO1
6	Choppa Nandini Basana Harshini Bonam Roshini N Balamaheswari	Relative Envision to Prognosis the Rarest Parkinson's Disease Using Machine Learning Techniques	Juni Khyat	2278-4632 Volume 11 Issue 7 July 2021	PO1-PO12 PSO1
7	Joba Kumari D Priya Anga Deepika G Nagamani	Calculate the Propinquity for Human Faces	Muki Shabd Journal	2347-3150 Volume X Issue VII July 2021	PO1-PO12 PSO2
8	Lanka Sruthi K Vijaya Varshini Kalla Divya Nukala Sruthii M Shailaja Preethi	Real-time Stress Detection using CNN	International Journal of Engineering Research in Computer Science and Engineering	2394-2320 Volume 8 Issue 7 July 2021	PO1-PO12 PSO2
9	N Swarupa M Padmaja Kalepu Sreeja N Ramadevi Kolli Sowjanya	Loan Application Analysis Using Machine Learning	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO2
10	M Jyothsna B Yamuna Kumari K Srivallika K Tanuja	Near Lossless Medical Image Compression Using Block BWT-MTF and Hybrid Fractal Compression Techniques	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO2
11	K Vennela K Divya N Anusha K Lavanya	Fire and Smoke Recognition Using Deep Learning	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO2
12	K Joga Sandhya Palem Sushma Natti Poornima M R L Charanmai	Image Haze Removal Using Dark Channel Prior	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO2
13	Kalaga Sahitya Karaka Jyoshna	Traffic Sign Recognition with R-	International Journal of	2320-2882 Volume 9	PO1-PO12 PSO2

	K Satya Priya Karanam Pooja	CNN	Creative Research Thoughts	Issue 7 July 2021	
14	Kola Lavanya Nallana Poojitha Kundrapu Pavani Konda Basheera	Secure File Storage in Cloud using Hybrid cryptography	Juni khyat journal	2278-4632 Volume 11 Issue 7 July 2021	PO1-PO12 PSO1
15	Maddi Annapurna K Leelavathi M Uma Maheswari Kambala Hema	Marketing Channel Attribution with Markov Chains in Python	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO2
16	M Saimounica N Sai Sandhya Kosuri Lavanya A Hemalatha	Triple Level User Authentication with Confidentiality	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO1
17	K Hema Sri M Sai Bhavana L Trisha K Poorna	Farmer Eco-Marketing System Using Blockchain Technology	Juni Khyat	2278-4632 Volume 11 Issue 7 July 2021	PO1-PO12 PSO2
18	Nupur Das P Gnaneswari M D Zenifer Kandrika Soumya	Location Based Routing for Ad hoc Mobile Networks	International Journal of All Research Education and Scientific Methods	2455-6211 Volume 9 Issue 7 July 2021	PO1-PO12 PSO1
19	Palli Vasanthi K Uma Sai Sirisha K Hari Swetha M Ratna Shivani	Image Depixelizer	International journal of innovations in Engineering and Technology	2319-1058 Volume 19 Issue 4 July 2021	PO1-PO12 PSO2
20	M V Sai Pravallika Kallada Yamuna N Padma Karada Pooja	Image Caption Generator	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO2
21	R Bharathi Jyothi Pappu Sri Sai Keerthi Srisailapu Sireesha Pulidindi Krishna Priya Seeramreddi Namratha	Accuracy Analysis using Machine Learning Classifier for Hardware Trojan Detection	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO1
22	Rayudu L V Srujana Sanapathi Bhagyasri S Naga Laxmi Yamini Vasireddy Swapnika Yelleti Yamini	Music Genre Classification Using Deep Learning	International Journal of All Research Education and Scientific Methods	2455-6211 Volume 9 Issue 7 July 2021	PO1-PO12 PSO1
23	Pureti Likhitha Ponnada Bhavya Sanapathi Sravani Paricharla Lahari Y Bheemarasetti	Sentiment Analysis Using Deep Neural Network on Movie Reviews	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO2

24	P Rama Lakshmi Penaganti Devi Vasupilli Harini V Kalpana P Jaya Chandrika	Helmet and License Plate Detection of Two Wheelers Using Open CV and YOLOV5	International Journal of Research and Analytical Reviews	2348-1269 Volume 8 Issue 3 July 2021	PO1-PO12 PSO2
25	Rongali Tanuja S Sandhya Rani Pusapati Revathi V Kusumanjali S Vijayalaxmi	Social Distance Detection Using Deep Learning	Juni Khyat Journal	2278-4632 Volume 11 Issue 7 July 2021	PO1-PO12 PSO2
26	Chinta Meghana P Sri Jyothi Meghana Sonti Jahanavi Pamula Gayathri	Malaria Detection using Blood Smear Images	Juni Khyat Journal	2278-4632 Volume 11 Issue 7 July 2021	PO1-PO12 PSO2
27	Ramireddi Chandini Sanam Rupa Sri N Krishna Veni Sammingi Nirmala	Stock Price Prediction Using Machine Learning using LSTM and Linear Regression	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 7 July 2021	PO1-PO12 PSO1
28	T Leela Bhavani Sai Rakshitha P Polaki Swathi Pasala Anusha	Underwater Image Enhancement	International Journal of Research and Analytical Reviews	2348-1269 Volume 8 Issue 3 July 2021	PO1-PO12 PSO1
29	Surada Haritha P Teja Sai Sree M Priya Mounika S Sri Varshini	Design an Analysis of Resume Screening Using Natural Language Processing	Mukt Shabd Journal	2347-3150 Volume X Issue VII July 2021	PO1-PO12 PSO1
30	Nagala Chandini Pilla Mounika P V Satya Likhitha Vedula Shaankari	Personality Prediction from Social Media Posts	International Journal of All Research Education and Scientific Methods	2455-6211 Volume 9 Issue 7 July 2021	PO1-PO12 PSO2
31	Gali Tejaswini Ch Monisha Baliboyena Divya Dulam Layasree	Android Malware Detection Using Machine Learning	International Journal of All Research Education and Scientific Methods	2455-6211 Volume 9 Issue 8 August 2021	PO1-PO12 PSO2
32	Anne Sri Rekha Chongali Madhulika Gavireddy Manasa Chevveti Virinchita J G K S S Sowmya	Eye Gaze Tracking System	International Journal of All Research Education and Scientific Methods	2455-6211 Volume 9 Issue 8 August 2021	PO1-PO12 PSO2
33	Ayithi Deepika Adapa Sai Santhoshi Dadi Sowmya G S Sirisha	Copy Right Protection of Digital Images with Digital Watermark	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 8 August 2021	PO1-PO12 PSO1
34	Gunna Madhusri Boddeda Utteja	Glaucoma Detection Using Fundus	International Journal of All	2455-6211 Volume 9	PO1-PO12 PSO2

	Borra Sunitha B C N Sai Sarada	Images Through Deep Learning	Research Education and Scientific Methods	Issue 8 August 2021	
35	Jerripothula Nadiya Arnipalli Shivani Boyidi Supriya E Sirisha Rani	Authentication Of Credit Card Using Face Recognition	Mukt Shabd Journal	2347-3150 Volume XI Issue V August 2021	PO1-PO12 PSO2
36	Bodda Akhila Gompa Nikhila Addala Lakshmi Gullipalli Jahnavi	Signature Verification Using Image processing and Neural Network	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 8 August 2021	PO1-PO12 PSO2
37	J Sai Harshitha M Rithwikaa Kalla Pavani K Ch Chowdary N S S Krishna	Automated Detection of covid-19 cases using Deep Neural Networks with X-Ray images	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 8 August 2021	PO1-PO12 PSO2
38	Silaparasetty Sushma V Vijaya Lakshmi Y D Naga Sai Bhanusri Tekkali Roopa Sravani Singampalli Yamini	Fake User Detection Using Machine Learning Techniques	Mukt Shabd Journal	2347-3150 Volume XI Issue V August 2021	PO1-PO12 PSO2
39	Talluri Meghana T J N Suryakumari Pothula Jahnavi N K S S Priyanka	Image Steganography using Python	International Journal of Research and Analytical Reviews	2348-1269 Volume 8 Issue 4 August 2021	PO1-PO12 PSO1
40	Vurukuti Mounica Sappa Sandhya Rani Veturu Ramyalakshmi Rayapureddy Anusha	Credit Card Fraud Detection Using Machine Learning	International Journal of Creative Research Thoughts	2320-2882 Volume 9 Issue 8 August 2021	PO1-PO12 PSO2
41	Sivala Deepika V D L Rajeswari R Yamini Varma Singampalli Ramya	Secure Data Transmission Using Hybrid Cryptography	Journal of Emerging Technologies and Innovative Research	2349-5162 Volume 8 Issue 8 August 2021	PO1-PO12 PSO1

Table B.6.4.e: Publications from Project Laboratory during 2020-21

CAYm1(2019-20):

Sr. No.	Name of the author	Title of the paper	Journal name	Volume/Issue ISSN, Month & Year	Relevance to POs & PSO
1	G.Sailaja B. Niharika V. M Chandana V.Bhavya Sri	Distributed Metadata Management for large storage systems using Hierarchical Bloom Filter	Parishodh Journal	Volume 9 Issue 3 2347-6648 March 2020	PO1-PO12 PSO1

		Arrays			
2	D. Jhansi Reddy K. Divya Sri G. Deva Harshini M. Nikitha	Secure Key-Deduplication using Convergent Key Encryption	Parishodh Journal	Volume 9 Issue 3 2347-6648 March 2020	PO1-PO12 PSO1
3	U.Indhira G.Kusuma K. Hima Bindu Ch. Sai Rakshitha	Smart Rendering News Article Reader	International Journal of Creative Research Thoughts	Volume 8 Issue 4 2320-2882 April 2020	PO1-PO12 PSO2
4	V. Pratyusha V. Keerthi T. Sahithya P. Anisha M. Roshini	Replenish Security through Carp Technology	International Journal of Analytical and Experimental Modal Analysis	Volume 12 Issue 4 0886-9367 April 2020	PO1-PO12 PSO1
5	Ch.S.L.Navya Bharathi Ch.Ramya K.Chinni K.Sai Praneetha	Retrieval of featured images using Face Detection	Mukt Shabd Journal	Volume 9 Issue 5 2347-3150 May 2020.	PO1-PO12 PSO2
6	A.Soundarya K.Bhavana D.Yamuna Ahmed Unnisa	Crack detection on concrete surfaces using Image Processing	International Journal of Creative Research Thoughts	Volume 8 Issue 5 2320-2882 May 2020.	PO1-PO12 PSO2
7	K.Usha K.Sri Harsha S.Rajeswari B.V.S.S. Madhuri	Pneumonia detection by X-ray images using Deep learning through CNN	Journal of XIAN University of architecture and Technology	Volume 12 Issue 5 1006-7930 May 2020.	PO1-PO12 PSO2
8	T.Jaya R. Sravani Sandhya M. Pravallika S. Snigtha	Sentimental Analysis on GST using Polarity Classification	International Research Journal	Volume 7 Issue 5 2395-3150 May 2020.	PO1-PO12 PSO1
9	Atta Lavanya Dasari Vandana Bera Sridevi Jajula Poornima	Age Estimation by Face Detection using Convolution Neural Networks	Advanced Science Letters	Volume 26 Issue 05 1936-7317 May 2020.	PO1-PO12 PSO2
10	M. Keerthi M. Kasturi R.Lochana Saimamba A. Anusha	Food Calorie estimation and auto bill generation for grocery products using YOLO Object Detection	Journal of Xi'an University of Architecture and Technology	Volume 12 Issue 5 1006-7930 May 2020.	PO1-PO12 PSO2
11	Ch.Deekshitha K. Amrutha	A three Layer privacy preserving	Journal of Creative	Volume 8 Issue 5	PO1-PO12 PSO1

	Sarvani K. Sadhana K. Chaturya	storage scheme for providing security	Research Thoughts	2320-28820 May 2020.	
12	S Sravya P Yamini Y Vasantha P Pooja	Fake News Detection and Comparison using Machine Learning Algorithms	International Journal of Research and Analytical Reviews	Volume 7 Issue 2 2349-5138 May 2020.	PO1-PO12 PSO1
13	G Aishwarya B Niharika B Suryateja B Harika	Enhancing advance driver assistance System by detecting weather conditions using Machine Learning	International Journal of Research and Analytical Reviews	Volume 7 Issue 2 2349-5138 May 2020.	PO1-PO12 PSO1
14	K. Yogitha J Swetha G. Praharsha Chakka Swapna	Offline handwritten character recognition using Neural Network	Mukt Shabd Journal	Volume 9 Issue 4 2347-3150 May 2020.	PO1-PO12 PSO2
15	G. Mounika K. Anjali Reddy Durga Bhavani B. Shivani	Object match swapping detection of Facial Landmarks using local-based information	International Journal of Analytical and Experimental Modal Analysis.	Volume 12 Issue 4 0886-9367 May 2020.	PO1-PO12 PSO1
16	P.Soumya N.Bhagya Lakshmi P. Jyothi Priya Y. Sriya	An Efficient Transaction Memory Storage Management Model for Images	Mukt Shabd Journal	Volume 9 Issue 5 2347-3150 May 2020	PO1-PO12 PSO2
17	M.Samyukta N.Srianjini T.Kusuma Sarika Y.Haritha	A Secure Approach for Communication in Mobile Adhoc Networks	Advanced Science Letters Journal	Volume 26 Issue 5 1936-6612 May 2020	PO1-PO12 PSO1
18	G.Anusha S.Girija Rajeswari Lakshmi G.Hyndavi	Reducing the routing overhead in secure mobile ADHOC networks	International Journal of Engineering Research and Technology	Volume 9 Issue 5 2278-0181 May 2020	PO1-PO12 PSO1
19	A VindyaSree SalapuDivya A D R Devi M T Akanksha	A Novel Steganographic Technique to embed SST encrypted message using PGLM	Mukt Shabd Journal	Volume 9 Issue 5 2347-3150 May 2020	PO1-PO12 PSO1
20	D.S. Haritha K. V Lakshmi D. Vasantha P. Bhargavvi	Hiding of CAPTCHA in a colour image using FNP Algorithm	Mukt Shabd Journal	Volume 9 Issue 5 2347-3150 May 2020	PO1-PO12 PSO1
21	G N S Lalitya	Multimedia content	International	Volume 7	PO1-PO12

	G K Sowmya I Bhagyalakshmi B SoniyaShyne	protection system for Cloud Storage	Journal of Research and Analytical Reviews	Issue 2 2348-1269 May 2020	PSO1
22	D. Sirisha G R Santhi Sri K M Prathyusha A Sowmya Sri	Detection of Money Laundering in Online Social Networks	Mukt Shabd Journal	Volume 9 Issue 5 2347-3150 May 2020	PO1-PO12 PSO2
23	P. Harshitha P. Manasa R. Sai Priya M. Joshna	Traffic Sign Detection using Convolutional Neural Networks	International Journal of Computer Science and Technology	Volume 11 Issue 2 0976-8491 June 2020.	PO1-PO12 PSO2
24	P.VeenaVaibhavi P.GunaVarshini P.Ankitha P.Lavanya	Redundancy Control Data - Driven Approach for Cluster based Wireless Sensor Networks	International Journal of Computer Science and Technology	Volume 11 Issue 5 229-4333 June 2020	PO1-PO12 PSO1
25	B.Jhansi Lakshmi M. Roopa Sri B. Sai Keerthi G. Nithisha G.Prashiptha	Ensemble clustering using DBSCAN and HDBSCAN	Journal of Xi'an University of Architecture & Technology	Volume 12 Issue 5 1006-7930 June 2020	PO1-PO12 PSO1

Table B.6.4.f: Publications from Project Laboratory during 2019-20

Figure B.6.4: Project Laboratory

Student achievements:

- With the available research facilities in the project laboratory students got selected for various organizations like Microsoft WISE program and Mission R&D and exhibited their excellence.
- The following are the details of the Microsoft WISE program selected students.

Sr. No.	Regd. No.	Name of the Student	Date(s) of event	Institution Name	Relevance to POs/PSOs
1.	17NM1A0515	B. Harshini	27.09.2019 to 18.09.2020	Microsoft, Hyderabad	PO4,PO9, PSO1,PSO2
2.	17NM1A0557	G. Madhu Sri	27.09.2019 to 18.09.2020	Microsoft, Hyderabad	PO4,PO9, PSO1,PSO2
3.	16NM1A0512	B. Niharika	27.09.2018 to 18.09.2019	Microsoft, Hyderabad	P04,PO5,P09, PSO1,PSO2
4.	15NM1A0559	K. Madhavi	18.10.2017 to 24.08.2018	Microsoft, Hyderabad	P04,PO5,P09, PSO1,PSO2
5.	15NM1A0556	K. Sushmitha	18.10.2017 to 24.08.2018	Microsoft, Hyderabad	P04,PO5,P09, PSO1,PSO2

Table B.6.4.g: Microsoft WISE program selected students

- The following are the details of the Mission R&D program selected students.

Sr. No.	Regd. No.	Name of the Student	Date(s) of event	Institution Name	Relevance to POs/PSOs
1.	17NM1A0509	A. Sri Rekha	27.09.2019 to 18.09.2020	GVP CoE, Visakhapatnam	PO4,PO9, PSO1,PSO2
2.	17NM1A0530	Ch. Alekya	27.09.2019 to 18.09.2020	GVP CoE, Visakhapatnam	PO4,PO9, PSO1,PSO2
3.	17NM1A0560	J. Kumari	27.09.2019 to 18.09.2020	GVP CoE, Visakhapatnam	PO4,PO9, PSO1,PSO2
4.	16NM1A0512	B.Niharika	17.09.2018 to 18.09.2019	GVP CoE, Visakhapatnam	PO4,PO9, PSO1,PSO2
5.	15NM1A0559	K. Madhavi	18.10.2017 to 24.08.2018	GVP CoE, Visakhapatnam	P04,PO5,P09, PSO1,PSO2

Table B.6.4.h: Mission R&D program selected students

- Most of the students are interested to participate in various technical events. To prove their talent, this project laboratory aided them with required software and hardware

resources. Few of the awards receiving events are listed below:

Sr. No.	Regd. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards	Relevance to POs &PSOs
1.	17NM1A0568	K. Sahitya	23.12.2019	Hack AI on Health	Medi Valley, World Incubation Hub AMTZ Campus	4th Prize	PO4,PO5, PO9. PSO1,PSO2.
2.	17NM1A0589 17NM1A0564 17NM1A05A1 17NM1A0574	K.Hema SaiHarsitha M.S.Bhavana K. Thanuja	21.09.2019 to 23.09.2019	Idea Presentation	VIIT, Visakhapatnam	1st Prize	PO4, PO5, PO9. PSO1,PSO2.
3.	18NM1A0558 18NM1A0558 18NM1A0558	K. Reshma Ch Agarwal Harshitha	21.09.2019 to 23.09.2019	Idea Presentation	VIIT, Visakhapatnam	2nd Prize	PO4,PO5, PO9. PSO1,PSO2.
4.	16NM1A0586 16NM1A0535 16NM1A0512 16NM1A05H3 16NM1A0504	HarshithaP Deepika E B Niharika Sathvika R AVyshnavi	26.08.2018	Pixel Run Appathon	NASSACOM M 10000, Symbiosis Technologies	2nd Prize	PO4,PO5, PO9. PSO1,PSO2.
5.	16NM1A0522	B. Bhanusree	26.09.2018 to 27.09.2018	Coding Competition	VIIT, Visakhapatnam	2nd Prize	PO4,PO5, PO9. PSO1,PSO2.
6.	16NM1A0530	D.Vandana Sri	06.12.2018 to 08.12.2018	Hackarena	VIIT, Visakhapatnam	1st Prize	PO4,PO5, PO9. PSO1,PSO2.
7.	16NM1A0593 16NM1A0594 16NM1A0588	P. Praveena P. Manju P. Vasudha	14.09.2018 to 15.09.208	Poster Presentation	VIIT, Visakhapatnam	2nd Prize	PO4,PO5, PO9. PSO1,PSO2.
8.	17NM1A0589 17NM1A0564 17NM1A05A1	K Hema Sri J. S. Harshitha M. S. Bhavana	14.09.2018 to 15.09.208	Poster Presentation	VIIT, Visakhapatnam	1st Prize	PO4,PO5, PO9. PSO1,PSO2.
9.	16NM1A0535 16NM1A0504 16NM1A0530 16NM1A0512 16NM1A05H3 16NM1A0586	E. Deepika A. Vaishnavi D. V. Sri B. Niharika G. Satwika P. Harsitha	14.09.2018 to 15.09.208	Live Models-Parna App	VIIT, Visakhapatnam	3rd Prize	PO4,PO5, PO9. PSO1,PSO2.

Table B.6.4.i: Achievements of students in various technical events

6.5 Safety measures in laboratories

Sr. No.	Name of the Laboratory	Safety Measures
1	Basic Programming Lab	• Dos & Don'ts are displayed in the laboratory. • Electrical equipment is grounded. • Class C Fire extinguisher is available in case of emergency. • First Aid kit is available in the laboratory.
2	Advance Programming Lab	• Dos & Don'ts are displayed in the laboratory. • Electrical equipment is grounded. • Class C Fire extinguisher is available in case of emergency. • First Aid kit is available in the laboratory.
3	Database and Design	• Dos & Don'ts are displayed in the laboratory.

	Lab	• Electrical equipment is grounded. • Class C Fire extinguisher is available in case of emergency. • First Aid kit is available in the laboratory.
4	Network Programming Lab	• Dos & Don'ts are displayed in the laboratory. • Electrical equipment is grounded. • Class C Fire extinguisher is available in case of emergency. • First Aid kit is available in the laboratory.
5	APSSDC CM Skill Centre of Excellence Lab & Embedded Systems Lab	• Dos & Don'ts are displayed in the laboratory. • Electrical equipment is grounded. • Class C Fire extinguisher is available in case of emergency. • First Aid kit is available in the laboratory.
6	Internet of Things (IoT) Lab	• Dos & Don'ts are displayed in the laboratory. • Electrical equipment is grounded. • Class C Fire extinguisher is available in case of emergency. • First Aid kit is available in the laboratory.
7	Project Lab	• Dos & Don'ts are displayed in the laboratory. • Electrical equipment is grounded. • Class C Fire extinguisher is available in case of emergency. • First Aid kit is available in the laboratory.
8	Research and Development Lab	• Dos & Don'ts are displayed in the laboratory. • Electrical equipment is grounded. • Class C Fire extinguisher is available in case of emergency. • First Aid kit is available in the laboratory.

Criterion 7	Continuous Improvement	50 M
7.1	Actions taken based on the results of evaluation of each of the POs & PSOs	20M
7.2	Academic Audit and Actions Taken thereof during the Period of Assessment	10M
7.3	Improvement in Placement, Higher Studies and Entrepreneurship	10M
7.4	Improvement in the quality of students admitted to the program	10M

Criterion 7	Continuous Improvement	50 M

7.1. Actions taken based on the results of evaluation of each of the POs & PSOs (20)

(*Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Measures identified and implemented to improve POs & PSOs attainment levels for the assessment years*.)

For continuous improvement in the Program Outcome of B. Tech Computer Science and Engineering and to identify the drawbacks in the program based on the curriculum; the analysis and evaluation of Course Outcomes, Program Outcomes and Program Specific Outcomes analysis is compulsory.

The Teaching-learning process, Assessment and Evaluation process are used to identify the targets set to POs and PSOs whether attained or not. Based on the observations for specific PO and PSO, actions and corrective measures are recommended to achieve, improve and maintain the target attainment for the next assessment years.

The following are the action plan to be followed for the subsequent academic year is recommended for those courses in which the targets of POs and PSOs are not achieved. The improvement and maintain in the attainment of POs and PSOs are monitored in the subsequent year for the courses achieved target.

POs & PSOs attainment levels and actions for improvement duringCAYm1 (2019-20)

POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	**2.45**	**2.49**	• Target is achieved. • Less attainment level below the target is observed for the courses like C310(CN), C311(DWM).
Action 1: In Computer Networks, Error Correction and Detection techniques, sliding window protocols need to be explained with examples. **Action 2:** In Data warehousing and Mining, topics like Classification, Clustering and Association Mining techniques need to be explained in detail.			
PO2: Problem analysis: Identity, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			

PO2	**2.45**	**2.53**	• Target is achieved. • Low attainment level is observed for the courses like C205(DS C++), C210(JP)
Action 1: In Data structures through C++, topics like Linked list, Binary trees are needed to explain with examples including assignments questions. **Action 2:** In Java, examples of logical thinking programs need to be explained with Flipped classroom Teaching-learning methodology for better understanding the concepts.			
PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.			
PO3	**2.45**	**2.46**	• Target is achieved. • Low attainment level is observed for courses like C209(SE), C303(OOAD).
Action 1: In Object-oriented analysis and design, behavioral models need to be explained in detail with various Real-time Case studies. **Action 2: C**ourses like Python Programming (C206), Java Programming lab(C216) and Database Management Systems lab(C308) should be explained with real-time applications to design and develop solutions to complex problems.			
PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	**2.45**	**2.45**	• Target is achieved. • Low attainment level is observed for course like C204(PP), C210(JP) • Logical thinking ability to solve complex problems need to be improved.
Action 1: Programs in Python programming need to be explained logically with examples. **Action 2:** A hands-on Workshop on Python Programming with real-time examples is proposed to conduct. **Action 3:** Advanced Java modules should be taught using real time examples java programming.			
PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations			
PO5	**2.45**	**2.39**	• Target is not achieved. • Low attainment level is observed for courses like C207(DS C++ Lab), C209(SE)
Action 1: Detail explanation is required with more examples in topics like Linked list, Binary trees of Data structures through C++. **Action 2:** A Seminar is proposed on the Latest testing methods which help to apply different logical techniques and testing methods in software engineering. **Action 3**: A Hands-on workshop is proposed on the latest technologies like Python			

<table>
<tr><td colspan="4">programming, Machine Learning, Blockchain Technology and IoT etc.,</td></tr>
<tr><td colspan="4">PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice</td></tr>
<tr><td>PO6</td><td>2.25</td><td>2.25</td><td>• Target is achieved.
• Still low attainment level below the target is observed for courses C210(JP), C304(DBMS).
• Still Lack understanding between the engineering services with the society.</td></tr>
<tr><td colspan="4">Action 1: Workshops are proposed to improve the coding skills on Web designing using the latest technologies.
Action 2: To increase immunity during the COVID pandemic, social events are proposed through Samskrithi club like “A 10-Days Yoga Challenge” and “How to boost your immune system” which increases immunity for a better healthy lifestyle.
Action 3: Students are encouraged to participate in co-curricular, extracurricular, inter and intra-institutional activities to enhance their professional engineering practices.</td></tr>
<tr><td colspan="4">PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.</td></tr>
<tr><td>PO7</td><td>2.25</td><td>2.21</td><td>• Target is not achieved.
• Still low attainment level below the target is observed for courses C216(JP LAB), C304(DBMS).</td></tr>
<tr><td colspan="4">Action 1: Samskrithi club needs to plan various environmental-related events to adopt a sustainable lifestyle that protects the environment from ecosystem related issues.
Action 2: NSS activity is proposed to conduct a poster presentation event on “Engineering for a Healthy Planet”.</td></tr>
<tr><td colspan="4">PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</td></tr>
<tr><td>PO8</td><td>2.25</td><td>2.35</td><td>• Target is achieved.
• Along with technical knowledge, ethical knowledge should be included to the students.</td></tr>
<tr><td colspan="4">Action 1: Guest lecture/Seminar are proposed related to Information Security and Challenges in Cyber Security issues on social media to create awareness on Cyber-crimes.
Action 2: Need to conduct Expert talks on Opportunities in Digital Era in the present day.</td></tr>
<tr><td colspan="4">PO9: Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings</td></tr>
<tr><td>PO9</td><td>2.25</td><td>2.28</td><td>• Target is achieved.
• Still low attainment level below the target is observed for programming courses C301(CD), C313(STM) etc.</td></tr>
<tr><td colspan="4">Action 1: Students are encouraged to Industry interaction to develop teamwork, interpersonal skills etc. in the working environment as Team /individual.
Action 2: Students are encouraged to organize and participate in various Intra and inter-college events to build leadership qualities among them.</td></tr>
</table>

<table>
<tr><td colspan="4">PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.</td></tr>
<tr><td>PO10</td><td>2.25</td><td>2.29</td><td>• Target is achieved.
• Communication skills need to be improved as the students are coming from different medium backgrounds.</td></tr>
<tr><td colspan="4">Action 1: Students are encouraged to adopt social media and explore communications skills which help in developing interpersonal skills.
Action 2: A Techkrithi club event, “Online-Tech-Talk on COVID19 analysis” idea presentation is proposed to conduct, which helps to explore their innovative ideas and communication skills.
Action 3: It is advised to conduct an Alumni talk on “Personality Development” which helps to improve their soft skills.</td></tr>
<tr><td colspan="4">PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.</td></tr>
<tr><td>PO11</td><td>2.25</td><td>2.26</td><td>• Target is achieved.
• low attainment level is observed for courses C207(DSC++lab), C304(DBMS).
• Knowledge of project management and finance should be improved.</td></tr>
<tr><td colspan="4">Action 1: Activities are to be planned under Association (CSEA) or any professional bodies like APSSDC and IEI to improve financial understanding and analysis.
Action 2: A seminar is suggested on project and finance management in data analytics which helps to improve their management and leadership skills in business.</td></tr>
<tr><td colspan="4">PO12: Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</td></tr>
<tr><td>PO12</td><td>2.25</td><td>2.25</td><td>• Target is achieved.
• Still low attainment is noticed in the courses like C314(AI).
• Need to improve the knowledge in latest technologies by using online resources for continuous learning.</td></tr>
<tr><td colspan="4">Action 1: Guest Lectures/Seminars are proposed to conduct on the latest technologies related to Artificial intelligence in current days.
Action 2: Students are encouraged to do online certification courses like NPTEL, COURSERA and UDEMY, on recent technologies.</td></tr>
<tr><td colspan="4">PSO1: Graduates exhibit knowledge of basic sciences, skills in engineering specialization like Information Security, Cloud Computing, Networking, Software Engineering and Data Analytics.</td></tr>
<tr><td>PSO1</td><td>2.45</td><td>2.45</td><td>• Target is achieved.</td></tr>
</table>

			• Improvement in Basic Science courses and fundamental knowledge of Engineering and Professional courses should be increased.
Action 1: Seminars/Group discussions/Interactive sessions need to be arranged for students to increase communication skills and knowledge in fundamental engineering courses. **Action 2:** A Workshop/Guest lecture is proposed on Cloud Virtualization to aware of its virtual functioning utilization.			
PSO2: Graduates can adapt to evolving technologies for the design and development of full-stack applications in diversified fields with optimal programming skills			
PSO2	**2.45**	**2.46**	• Target is achieved. • Students need to develop optimized programming skills using the latest technologies in the era of Computer Science.
Action 1: Workshops / Guest lectures are suggested to conduct on the latest topics like AWS, Machine learning, IoT etc. **Action 2:** A hands-on Workshop is proposed on full-stack Application Development programs which helps to develop optimal coding skills.			

POs & PSOs attainment levels and actions for improvement during CAYm2(2018-19)

POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	**2.40**	**2.44**	• Target is achieved. • Less attainment level below the target is observed for the courses like C301(CD), C304(DBMS), C305(OS) and C401(CNS). • Performance in Basic science courses are less.
Action 1: More assignments and examples should be given on topics like RSA, DES, AES Algorithms in Cryptography and Network Security. **Action 2:** Lexical Analysis and syntax errors in Compiler Design are to be emphasized using different examples. **Action 3:** Page replacement algorithms should be delivered elaborately in Operating systems. **Action 4:** Database query handling and Normalization methods should be delivered elaborately in Database Management System. **Action 5:** Slow learners are to be planned with extra classes through continuous monitoring.			
PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			

PO2	**2.40**	**2.40**	• Target is achieved. • Less attainment level below the target is observed for the courses like C104(CP), C304(DBMS), C305(OS), C411(DDS). • Need to improve the analyzing ability among the students for continuous improvement.
Action 1: Additional lab sessions to be conducted to enhance analyzing ability in solving problems logically using C Programming. **Action 2:** More theory and practical sessions need to be conducted to explain key topics like query processing, transaction management methods, SQL queries etc. **Action 3:** Assignments should be given related to problem analysis in topics like scheduling algorithms, process management, paging techniques of the Operating system**.** **Action 4:** Faculty is advised to discuss GATE relevant topics in classrooms to increase the problem analyzing abilities in students.			
PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.			
PO3	**2.40**	**2.41**	• Target is achieved. • Still low attainment level is observed for courses like C401(CNS), C403(MC), C411(DDS). • Design aspects are lagging in the courses C310(STM), C402(UDP).
Action 1: Cryptography algorithms need to be explained in detail with interactive sessions in Cryptography and Network Security. **Action 2**: Seminars/workshops need to be conducted on Wireless Networking and Mobile Computing with real-time examples. **Action 3:** Few core courses should be taught with real-time applications to design and develop solutions of complex problems.			
PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	**2.40**	**2.42**	• Target is achieved. • Still low attainment level is observed for courses like C104(CP), C211(JP), C203(OOPS). • Logical thinking ability to solve complex problems need to be improved.
Action 1: Lab sessions should be increased for programming language courses to enhance coding skills in solving complex problems. **Action 2:** Faculty members are advised to confer modest and significant journal papers in the classroom to improve research-based knowledge in their project work. **Action3**: Advanced modules in Object-oriented programming should be taught using java and the latest programming languages.			

<table>
<tr><td colspan="4">PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations</td></tr>
<tr><td>PO5</td><td>2.40</td><td>2.41</td><td>• Target is achieved.
• Still low attainment level below the target is observed for courses like C402(UDP), C404(STM), C405(HBD), C410(CC).</td></tr>
<tr><td colspan="4">Action 1: Advanced tool Star UML2 should be used to teach the course UML& design patterns and more case studies should inculcate on software testing tools.
Action 2: Students are provided with an AWS account for using the cloud resources in doing mini and major projects.
Action 3: Hands-on training sessions and workshops are conducted in Python, Java, Hadoop and Bigdata, Android and IoT.</td></tr>
<tr><td colspan="4">PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice</td></tr>
<tr><td>PO6</td><td>2.20</td><td>2.25</td><td>• Target is achieved.
• Still low attainment level below the target is observed for courses C403(MC), C405(HBD), C410 (CC).
• Still Lack understanding between the engineering services with the society.</td></tr>
<tr><td colspan="4">Action 1: A workshop on real-time applications using IoT needs to be planned to meet the safety and security aspects for a better society.
Action 2: Workshop and Guest lecturers to be conducted on designing, thinking and ethical software development.
Action 3: Students are encouraged to participate in co-curricular, extracurricular, inter and intra institutional activities to enhance their professional engineering practices.</td></tr>
<tr><td colspan="4">PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.</td></tr>
<tr><td>PO7</td><td>2.20</td><td>2.06</td><td>• Target is not achieved.
• Still low attainment level below the target is observed for courses C318(WT LAB), C403(MC).</td></tr>
<tr><td colspan="4">Action 1: Seminars and events are planned to improve consciousness on environment and sustainability issues professionally.
Action 2: NSS activities are suggested to create awareness on “Renewable Energy Sources” for the environment and sustainability.
Action 3: Environmental related topics for sustainability need to be discussed with students to make awareness on the issues that occurred by wireless radiations in society.</td></tr>
<tr><td colspan="4">PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</td></tr>
<tr><td>PO8</td><td>2.20</td><td>2.26</td><td>• Target is achieved.
• Along with technical knowledge, ethical knowledge</td></tr>
</table>

			should be included while teaching the programming courses.
Action 1: More workshops need to be conducted related to ethics like Cyber security, Ethical hacking and issues related to social media to create awareness of Cyber-crimes. **Action 2:** Need to conduct more Expert talks on Professional Ethics in Computer science and engineering.			
PO9: Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings			
PO9	**2.20**	**2.22**	• Target is achieved. • Still low attainment level below the target is observed for programming courses C211(JP), C212(ADS) etc.
Action 1: Students are motivated to organize and participate as an individual or a team in department, institute level and intra institute events. **Action 2**: More students should be encouraged to participate in group discussions that incorporate decision-making ability and work division capability. **Action 3**: Students are encouraged to participate as an individual or a team by adapting the latest trends in programming knowledge to develop Live models, Coding competitions, Hackathons, major and mini-projects.			
PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
PO10	**2.20**	**2.25**	• Target is achieved. • Presentation and communication skills need to be improved as the students are coming from different medium backgrounds.
Action 1: Students are advised that communication is a continuous learning process and motivated to participate in inter and intra institute events like paper presentation, poster presentation, group discussions, quiz competitions etc. **Action 2:** Students are encouraged to participate in National and International events which are conducted in other colleges.			
PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			
PO11	**2.20**	**2.22**	• Target is achieved. • Still low attainment level below the target is observed for courses C211(JP), C212(ADS), C304(DBMS). • Knowledge of project management and finance should be improved.
Action 1: Students are encouraged to organize inter and intra institutional events, Department Association club activities like (Technical/Non-Technical) to increase their management skills. **Action 2:** Activities are to be planned under professional bodies like CSI and IEI to			

<table>
<tr><td colspan="4">improve financial understanding and analysis.
Action 3: Students are instructed to develop projects using the latest trends in the era of computer science and engineering and motivated to publish their academic projects in reputed journals.</td></tr>
<tr><td colspan="4">PO12: Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</td></tr>
<tr><td>PO12</td><td>2.20</td><td>2.25</td><td>• Target is achieved.
• Still low attainment is noticed in the courses like C206(OOPS LAB), C207(DS LAB).
• Need to improve the knowledge in latest technologies by using online resources for continuous learning.</td></tr>
<tr><td colspan="4">Action 1: Students are encouraged to take up online certification courses like NPTEL, COURSERA and UDEMY on recent technologies.
Action 2: Awareness of the latest technologies and trends is planned through seminars and guest lectures.</td></tr>
<tr><td colspan="4">PSO1: Graduates exhibit knowledge of basic sciences, skills in engineering specialization like Information Security, Cloud Computing, Networking, Software Engineering and Data Analytics.</td></tr>
<tr><td>PSO1</td><td>2.40</td><td>2.40</td><td>• Target is achieved.
• Improvement in Basic Science courses and fundamental knowledge of Engineering and Professional courses should be increased.</td></tr>
<tr><td colspan="4">Action 1: Seminars, Group discussions and Interactive sessions need to be arranged for students to increase communication skills and knowledge in fundamental engineering courses.
Action 2: Guest lectures and workshops need to be planned to expose the latest advancements in Cloud Computing, Network security etc.</td></tr>
<tr><td colspan="4">PSO2: Graduates can adapt to evolving technologies for the design and development of full-stack applications in diversified fields with optimal programming skills</td></tr>
<tr><td>PSO2</td><td>2.40</td><td>2.40</td><td>• Target is achieved.
• Students need to develop optimized programming skills using the latest technologies in the era of Computer Science.</td></tr>
<tr><td colspan="4">Action 1: Faculty members are advised to encourage students to do mini and major projects on the latest trends like Android, Big data, IoT etc.
Action 2: Students are motivated to develop multi-disciplinary projects with optimized programming skills in the latest technologies.</td></tr>
</table>

7.2. Academic Audit and actions taken thereof during the period of Assessment (10)

(Academic Audit system/process and its implementation in relation to Continuous Improvement)

The quality of teaching-learning practices in the Department of Computer Science and Engineering and attaining the target is ensured by carrying out the Academic Audit. The various committees like Department Advisory Committee (DAC), Program Assessment Committee (PAC), Student Review Committee (SRC), audits the various activities which are carried out in the department at their frequency on demand.

These committees submit their report consisting of observations, suggestions and actions taken thereof to IQAC through the Head of the department and IQAC will prepare an academic audit and submit it to the Head of the Department.

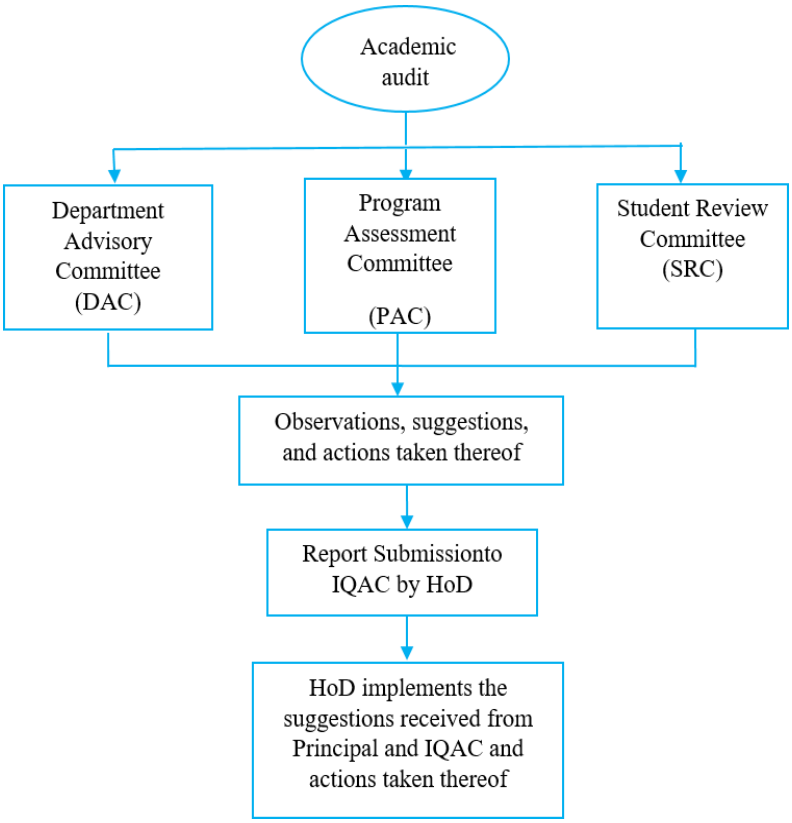


Figure B.7.2: Process of Academic audit

The Head of the department considers the suggestions from the Principal and IQAC. Any suggestions from the Principal and IQAC will be considered and implemented in the Department by the Head of the department.

The process of Academic audit for the program is shown in Fig B.7.2 and the composition of various committees involved with their roles and responsibilities are shown in Table B.7.2.a.

Audit Committee	Roles &Responsibilities	Frequency
Department Advisory Committee (DAC): • Principal • Academic Director • Head of the Department • Industry person • Academic person • Alumni	• Monitoring the achievements of Program Outcomes (POs), Program Specific Outcomes (PSO), Program Educational Objectives (PEOs). • Evaluating program effectiveness and proposing necessary changes. • For quality improvement, monitoring the faculty and students towards attending FDPs, Workshops, Seminars, Development activities and Research activities. • Suggestions on Teaching pedagogy and OBE awareness. • Suggestions for Students –Industry interaction.	Once in a year
Program Assessment Committee (PAC): • Head of the Department • Program Coordinator • Attendance Coordinator • Feedback Coordinator • Examination Coordinator • Faculty activities and R& D Coordinator • Project Coordinator • Student Mentoring Coordinator • System Cell In-charge • Training and Placement Coordinator • IQAC Department Coordinator • Student activities Coordinator	• Adherence to the academic calendar. • Course file verification. • Verification of quality of Assignments, Tutorials, Contents in the Department Course website. • Curriculum delivery process and Assessing Curriculum- Gap identification. • Attainment of COs, POs & PSOs. • Collection and Analysis of feedback and various Surveys- Corrective measures. • Providing guidelines to participate and organize FDPs, Conferences, Seminars, Workshops, Events in student chapters, Inter- institute events etc. • Review on Quality & Quantity of Research publications. • Verification of Lab manuals, Student lab records, Stock registers, Maintenance registers, Suggestion books, AMC, overall lab maintenance etc. • Laboratory works evaluation process. • Available and requirement of lab resources (Software, hardware, peripherals etc.), their working status and Utilization. • Assessing student's projects (Mini & Major).	Once in a semester
	• Verification- Quality of Mid exam question paper and scheme of evaluation as per COs followed by Bloom's taxonomy. • Evaluating the results and measures for improvement • Process of identifying the advanced and slow learners and necessary suggestions.	Twice in a semester

	Should be given.	
	• Attendance registers, monthly attendance reports, Communication of attendance. • Periodic meetings with all Mentors for improvement. • Review and Guidelines on Campus Recruitment training, On-campus and Off-campus placements, Measures for improvement of placements. • Monitoring the process and Suggestions/ corrective measures for the mentoring outcome.	Once in a month
Student Review Committee (SRC): • Head of the Department • Faculty Coordinator- II year • Faculty Coordinator- III year • Faculty Coordinator- IV year • Student Representative- II year • Student Representative - III year • Student Representative - IV year	• Performance analysis of students in internal & external examination. • Encouraging students for Internships in top MNC's. • Encouraging students to publish papers on final year projects, higher studies, competitive exams, GATE, GRE etc. • Review Classroom activities for better learning and understanding of content. • Interaction with Students about placement and training activities	Twice in a semester
	• SRC meetings to monitor syllabus status. • Interacting with students regarding student mentoring system and regular absentees. • Assessing the requirement of Extra/Tutorial/Remedial Classes.	Once in a month

Table B.7.2.a: Audit Committee - Roles &Responsibilities

Actions on audit committee reports for Assessment year CAYm4 (2016-17)

S.No	Academic Audit Committee	Committee members	Major findings/ Suggestions	Corrective actions
1.	**Department Advisory Committee (DAC)**	Dr. J. Sudhakar *Principal* Dr. A. Sesha Rao, *Academic Director* Dr. K. Vijaya Kumar *Head of the Department* Mr. T.Suresh, *Wipro, Industry person* Mrs.G.Aruna Kumari, *UCEV, Academic person* Ms. A. Anusha- *Alumni working as a faculty*.	• Suggested to establish student clubs and organize events. • Advised faculty to publish one Scopus Indexed paper for every semester. • Faculty FDP's and certification courses are to be increased. • Students participating in Inter-institute events to be encouraged • Students should be motivated towards higher studies.	• TECHRITHI and SAMSKIRTHI are two student clubs established. • Management is encouraging faculty members to publish papers in reputed journals to improve their number of publications for the subsequent academic years. • Faculties motivate the students towards higher education.
2.	**Program Assessment and Committee (PAC)**	Dr. K. Vijaya Kumar *Head of the Department* Mrs. P. Vijaya Bharati *Program Coordinator*. Mr.A.N.Suresh *Attendance Coordinator* Ms.T.Padmavathi *Feedback coordinator* Mr.L.Bhupathi Rao *Examination Coordinator* Mr. S. Ram Prasad Reddy. *R& D Coordinator* Mrs. D.Kamalkumari *Project Coordinator*	• Incomplete syllabus before mid1 exams. • Quality Improvement of question paper and scheme of valuation according to Bloom's taxonomy • License and open-source software should be more in the lab. • Lab manuals need to be updated as per the regulation • Additional experiments should include beyond the syllabus • Interaction with students of less attendance should be there continuously.	• Extra classes are scheduled to complete the syllabus before the mid examination • Circular is issued to all faculties to strictly adhere to Bloom's taxonomy in questions preparing for Assignments and Mid examinations • Mentors are in contact with such students and their parents. • Mentors/Class-coordinators discussed the importance of the course website to II year students and guidelines are provided for examination preparation. • For core programming courses, extra

		Mr.B.A.Ganesh *Student Mentoring Coordinator* Mr. P.Praveen kumar *System Cell Incharge* Mr. V.Uma Shankar T&*P Coordinator* Mrs. R. Pravallika, *IQAC Department Coordinator* Ms. Y. VineelaSravya *Student activities Coordinator*	• Awareness of Course website and directions towards mid-exam preparation should be proactive.	lab hours and programs beyond the syllabus are explained.
3.	**Student Review Committee (SRC)**	Dr. K. Vijaya Kumar *Head of the Department* Mrs.K.Madhuri *Faculty Coordinator- II year* Mr.B.A.Ganesh *Faculty Coordinator- III year* Mr.L.Bhupathi Rao *Faculty Coordinator- IV year* K.Pratyusha *Student Representative- II year* A.Krupa Chelsia *Student Representative -IIIyear* P. Priya Bhargavi *Student Representative-IV year*	• Few students in every class are with less attendance. • More lab practice hours to be provided for lab courses • Student publications are to be improved. • Alumni registrations and events to be conducted.	• Informed student mentors to know the reason for less attendance and communication is sent to Parents. • Lab is open to all students even after the regular timings and students are utilizing this facility. • Motivating final year students to publish papers. • Final year students are provided with the importance of alumni registrations

Table B.7.2.a: Actions on audit committee reports for Assessment year CAYm4 (2016-17)

Actions on audit committee reports for Assessment year CAYm3 (2017-2018)

S.No	Academic Audit Committee	Committee members	Major findings/ Suggestions	Corrective actions
1.	**Department Advisory Committee (DAC)**	Dr. J. Sudhakar *Principal* Dr. A. Sesha Rao, *Academic Director* Dr. K. Vijaya Kumar *Head of the Department* Mr. T.Suresh, *Wipro, Industry person* Mrs.G.Aruna Kumari, *UCEV, Academic person* Ms. A. Anusha- *Alumni working as a faculty*.	• Suggested implementing Dynamic classroom teaching methods • More number of events to be organized to fill the curriculum gap for attaining POs and PSOs • Suggested the faculty to create awareness on OBE to students. • Advising the faculty and students towards attending workshops, developing projects and engaging in research activities. • Suggested faculty to maintain periodic reports on program activities.	• FDP on teaching pedagogy methods attended by a few faculties are implemented in the classroom. • Extracurricular and Co-curricular events are conducted and students are encouraged to attend inter institute events • Management is providing sufficient resources to be aware of OBE. • Management is supporting both faculty and students to attend workshops and conferences which are conducted in other colleges. • Management is providing advanced equipment in labs to encourage research activities.

2.	**Program Assessment and Committee (PAC)**	Dr. K. Vijaya Kumar *Head of the Department* Mrs. P. Vijaya Bharati *Program Coordinator*. Mr. A.N.Suresh *Attendance Coordinator* Ms. T.Padmavathi *Feedback coordinator* Mr. L.Bhupathi Rao *Examination Coordinator* Mr. S. Ram Prasad Reddy *R& D Coordinator* Mrs. D.Kamal kumari *Project Coordinator* Mr. B.A.Ganesh *Student Mentoring Coordinator* Mr. P.Praveen kumar *System Cell Incharge* Mr. V.Uma shankar T&*P Coordinator* Mrs. R. Pravallika, *IQAC Department Coordinator* Ms. Y. Vineela Sravya *Student activities Coordinator*	• Identified more backlog students in every class. • Identified less attendance of students in every class. • Identified less feedback for a few courses. • Inclusion-of-augmented experiments in every lab. • Latest versions of software's need to be updated. • Lack of participation in CRT training classes • Identified number of projects should be on latest technologies like IoT etc.	• Remedial classes should be conducted for backlog students. • Faculty need to counsel the students and their parents to make the student attend the classes regularly. • HOD counsels the faculty those who got less feedback by identifying their drawbacks while teaching and conducting orientation classes as action taken thereof by the Principal. • Explaining more examples beyond the syllabus and giving more time for practice • Lab Incharge is advised to update the latest software's. • Assigning a student coordinator for every class as a disciplinary committee member. • Faculty are advised to motivate the students to know the importance of training and placement classes

3.	**Student Review Committee (SRC)**	Dr. K. Vijaya Kumar *Head of the Department* Mrs. R. Pravallika *Faculty Coordinator- II year* Mr. A.N.Suresh *Faculty Coordinator- III year* Mr. I.Raju *Faculty Coordinator- IV year* G.Praharsha *Student Representative- II year* A.Sireesha *Student Representative - III year* Sheetal Singh *Student Representative - IV year*	• Advised faculty to conduct interactive sessions on senior-junior talks regarding placement and training and share their experiences. • Results to be improved. Average marks of each course in a class to be improved • Faculty need to encourage students to publish papers on final year projects • Less interaction among regular absentees • Less interaction with students regarding class monitoring system	• Senior-junior interactive sessions should inculcate for every section weekly once. • Faculty helps students to create awareness on research publications. • Faculty need to update student counselling records monthly. • Class teachers are advised to interact with students regarding their class works continuity.

Table B.7.2.b:Actions on audit committee reports for Assessment year CAYm3 (2017-2018)

Actions on audit committee reports for Assessment year CAYm2 (2018-2019)

S.No	Academic Audit Committee	Committee members	Major findings/ Suggestions	Corrective actions
1.	**Department Advisory Committee (DAC)**	Dr. J. Sudhakar *Principal* Dr. A. Sesha Rao, *Academic Director* Dr. K. Vijaya Kumar *Head of the Department* Mr. T. Suresh, *Wipro, Industry person* Mrs. G. Aruna Kumari, *UCEV, Academic person* Ms. A. Anusha-	• Suggested faculty members organize a National Level Conference. • Advised faculty to publish one Scopus Indexed paper for every Semester. • Faculty FDP's and certification courses are to be increased. • Students participating in Inter-institute events to be encouraged	• Department of Computer Science Engineering planning for a national-level conference in the month of October. • Management is encouraging faculty members to publish papers in reputed journals. Improving the number of publications for the subsequent academic years • Management is encouraging faculty with financial benefits to

		Alumni working as a faculty.		attending FDP's in IIT'S, NIT's & for NPTEL certification. More publications and attending FDPs are in process.
2.	**Program Assessment Committee (PAC)**	Dr. K. Vijaya Kumar *Head of the Department* Mrs.P.Vijaya Bharati *Program Coordinator*. Mrs. G. Pavani Latha *Attendance Coordinator* Dr.T.Madhusudhana Rao, *Feedback coordinator* Mr.I.Raju *Examination Coordinator* Mr. S.Ram Prasad Reddy. *R& D Coordinator* Mrs. M. Mamatha laxmi *Project Coordinator* Mrs. N. Sowjanya Kumari *Student Mentoring Coordinator* Mr.D.Rajendra Dev *System Cell In-charge* Mr.R.Ravi T*&P Coordinator* Mrs.R.Pravallika, *IQAC Department Coordinator* Ms.Y.Vineela Sravya *Student activities Coordinator*	• Delay in producing the course files • Innovative-Teaching-learning methods should be adopted in terms of OBE • Incomplete syllabus before mid1 exams. • Quality Improvement of question paper and scheme of valuation according to Bloom's taxonomy • License and open-source software should be more in the lab. • Lab manuals need to be updated as per the regulation • Additional experiments should include beyond the syllabus • Interaction with students of less attendance should be there continuously. • Awareness of the Course website and directions towards mid-exam preparation should be proactive.	• Suggested submitting course files on time except for a proper cause. • Extra classes are scheduled to complete the syllabus before the mid examination • Circular is issued to all faculties to strictly adhere to Bloom's taxonomy in Questions preparing for Assignments and Mid examinations • Mentors are in contact with such students and their parents. • Mentors/Class Coordinators discussed the importance of Course website to II-year students and guidelines are provided for examination preparation.
3.	**Student Review Committee (SRC)**	Dr. K. Vijaya Kumar *Head of the Department* Mr. I. Raju *Faculty Coordinator- II year*	• Few students in every class are with less attendance. • More lab practice hours to be provided for lab courses	• Informed Student mentors to know the reason and communication is sent to Parents. • Lab is open to all students even

		Ms. Y. Vineela Sravya *Faculty Coordinator- III year* Mrs. P. Vijaya Bharati *Faculty Coordinator- IV year* G.Vatsalya *Student Representative- II year* P.Harshitha *Student Representative - III year* K.Madhumitha *Student Representative - IV year*	• Student publications are to be improved.	after the regular timings and students utilizing this facility. • Motivating final year students to publish papers in the subsequent years

Table B.7.2.c: Actions on audit committee reports for Assessment year CAYm2(2018-2019)

Actions on audit committee reports for Assessment year CAYm1(2019-2020)

S.No	Academic Audit Committee	Committee members	Major findings/ Suggestions	Corrective actions
1.	**Department Advisory Committee (DAC)**	Dr. J. Sudhakar *Principal* Dr. A. Sesha Rao, *Academic Director* Dr. K. Vijaya Kumar *Head of the Department* Mr. T. Suresh, *Wipro, Industry person* Mrs. G. Aruna Kumari, *UCEV, Academic person* Mrs.B.Madhavi - *Alumni working as Relationship manager, Leanpitch Technologies* .	• Suggested to publish more paper publications. • suggested faculty adopt the latest trends in technology of IT and should encourage students' higher studies and for startups to make them turn towards entrepreneurship. • Suggested enhancing students' knowledge by conducting various workshops. • Advised to organize and participate in FDP's, workshops on emerging trends. • Suggested to conduct Alumni Talks, and industry visits to Fill the Gap between Industry and	• Management is encouraging faculty members to publish papers in reputed journals. Improving the number of publications for the subsequent academic years • Faculty and mentors encourage students towards higher studies and entrepreneurship skills by attending various internships. • Suggested organizing various workshops, guest lectures, seminars on latest technologies. • Organized copious FDP's and attended various workshops by faculties. • Department of Computer Science Engineering planning to conduct

			academics. • Advised to fill the curriculum gaps by conducting, Teaching-learning methodology Guest lectures, Industrial talks.	FDP on emerging trends. • Alumni talks are proposed to develop soft skills and personality development among students and to adopt IT culture. • Suggested to adopt various teaching-learning methods like open book exam, Flipped classroom, seminars and various tech talks are planned according to current trend topics.
2.	**Program Assessment Committee (PAC)**	Dr. K. Vijaya Kumar *Head of the Department* Dr.T.Madhusudhana Rao *Feedback coordinator* Mrs.P.Vijaya Bharati *Program Coordinator*. Dr.G.Neelima *R& D Coordinator* Mrs.R.Pravallika, *IQAC Department Coordinator* Mr.I.Raju *Examination Coordinator* Mrs. M. Mamatha laxmi *Project Coordinator* Mrs. N. Sowjanya Kumari *Student Mentoring Coordinator* Mr.D.Rajendra Dev *System Cell In-charge* Mr.R.Ravi T*&P Coordinator* Ms.Y.Vineela Sravya	• To conduct classes with Industry persons (Adjunct faculty). • To conduct value-added courses on recent technologies. • To Conduct remedial classes for slow students. • Suggested concentrating more on training and placements towards core companies. • Suggested conducting Industry visits. • To conduct events related to environmental sustainability. • To conduct a workshop in association with IEI Student Chapter. • Advised the faculty members to do more research publications. • Faculty who got less feedback is referred to Orientation classes.	• Advised conducting special classes with Adjunct faculty subjects like Deep learning, Machine learning etc. • Remedial classes should be conducted for backlog students. • Faculty are advised to motivate the students to know the importance of training and placement classes • An industry visit is proposed for III B. Tech students. • Seminars /Guest lectures to need to plan eco system related issues. • Faculty need to counsel the students and their parents to make the student attend the classes regularly. • HoD counsels the faculty those who got less feedback by identifying their drawbacks while teaching and conducting

		Student activities Coordinator Mrs. G. Pavani Latha *Attendance Coordinator*	• Content beyond the syllabus. • Lab Software's must be updated for every semester.	orientation classes as action taken thereof by the Principal. • Explaining more examples beyond the syllabus and give more time for practice • Lab incharges is advised to update the latest software's.
3.	**Student Review Committee (SRC)**	Dr. K. Vijaya Kumar *Head of the Department* Mrs. P. Vijaya Bharati *Associate Professor* Ms. G. Sandhya *Faculty Coordinator- II year* Ms. Y. VineelaSravya *Faculty Coordinator- III year* Mrs. B. Madhavi *Faculty Coordinator- IV year* K. Sreeja *Student Representative- II year* B. Anjali *Student Representative - III year* R. Mounika *Student Representative - IV year*	• Few students in every class are with less attendance. • More lab practice hours to be provided for lab courses • Student publications are to be improved. • Advised making use of course website VIEWMATE. • Suggested all the faculty members complete the syllabus in time according to the JNTUK calendar. • Students are encouraged towards Internships to turn towards startups and Higher studies. • Students are encouraged to do Online Certification courses and participate in Hackathons, Hash codes etc.	• Class coordinators and mentors are advising students to use the course website VIEWMATE which consists of [complete course materials, assignment questions, previous question papers, important questions etc.] • Faculty members are taking extra classes in case if the syllabus is incomplete before mid-1 and mid-2. • Mentors and all faculty members motivate students towards various internships in top MNCs. • Faculty members are advised students to do online certification courses in NPTEL, Udemy, Coursera on the latest technologies like Artificial intelligence, Data Science, Machine learning etc.

Table B.7.2.d: Actions on audit committee reports for Assessment year CAYm1(2019-2020)

Year	Improvements
2019-20	• Quality of Placements increased • Highest package is 19 LPA in Amazon • Student publications in reputed journals are increased. • Visited AMTZ Visakhapatnam industry. • Organized various FDPs, workshops, seminars. • Innovative Teaching-Learning methodologies like Flipped classroom, open ended problems, Think-pair-share etc., various methods are incorporated in curriculum increased in terms of OBE. • International level Google #Hash code a 24 hours coding competition was conducted. • Conducted various activities under Techkrithi and Samskrithi club to up bring various skills among students. • National level technical event VISTA2K19 was organized • National level Youth Fest "YUVATARANG 2K19" was organized. • Students are actively participating in various internship's programs in companies like MICROSOFT, INTERNSHALA etc. which is very much helpful for them in placements. • Students are actively doing various online certification courses in NPTEL, UDEMY, COURSERA etc.,
2018-19	• Quality and Quantity of paper publications in reputed journals are increased. • Student's placements and packages were increased • Campus recruitment training and Campus specific training is provided for campus drives. • Visiting of reputed MNCs were increased. • Organized various FDPs, workshops, seminars. • Student publication in journals is increased • Innovative Teaching-Learning methodologies are incorporated in curriculum increased in terms of OBE. • National conference was planned to organize in subsequent year. • Student's activities are enhanced to increase their technical skills. • National level technical event VISTA2K18 was organized • Established NPTEL local chapter and faculties, students were encouraged to do online certification courses • Established Texas Instrumental IoT Lab.
2017-18	• Quality of question paper and standards were observed and all the faculty are following Blooms taxonomy. • Peer-to-peer and Collaborative learning activities are incorporated.

	• Student clubs Techkrithi and Samskrithi was established under CSEAC. • National level technical eventVISTA2K17 was organized • Student's projects were increased in terms of lasted treads in era of computer science and engineering. • Remedial classes are provided to slow learners. • Special GATE coaching classes is provided to advanced learners.
2016-17	• Student's placements are increased • Student results are progressively increased for all semesters. • Latest courses like Hadoop and Python programming are explained with number of additional programs and extra practical sessions provided. • Followed the Bloom's taxonomy in the questions for mid examination • Fast track material is provided for slow learners. • National level technical event VISTA2K16 was organized

Table B.7.2.e: Audit committee recommendations-Actions taken for Continuous improvements

7.3. Improvement in Placement, Higher Studies and Entrepreneurship (10)

Assessment is based on improvement in:

- *Placement: number, quality placement, core industry, pay packages etc.*
- *Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions.*
- *Entrepreneurs.*

A. Improvement in Placement numbers, quality, core hiring industry and pay packages (5)

Placement numbers:

The placement data of the program shows a progressive growth in terms of number of placements and offered packages. Campus recruitment training and Campus specific training helps every student in adapting the latest skills demanded by the industry. The following tables represent the number of placements for the assessment year CAYm3(2017-18), LYG (2016-17), LYGm1(2015-16), LYGm2(2014-15), LYGm3(2013-14). Below Table.B.7.3. a summarizes the placements, higher studies and entrepreneur data we have achieved and average placement of 87% for the last three assessment years.

Item	CAYm3 (2017-18)	LYG (2016-17)	LYGm1 (2015-16)	LYGm2 (2014-15)	LYGm3 (2013-14)
Total No. of final year students (N)	195	189	183	170	155
No. of students placed in Companies or Government Sector (X)	150	149	165	142	131
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (Y)	0	5	2	6	8
No. of students turned entrepreneur in Engineering / Technology (Z)	0	1	1	1	2
X+Y+Z =	150.00	155.00	168.00	149.00	141.00
Placement Index: (X+Y+Z)/N	0.76	0.82	0.92	0.87	0.90
Average placement in percentage=(P1 +P2+P3)/3*100			90.00%		
		87.00%			

Table B.7.3.a: Placements, Higher studies, Entrepreneur data

Quality and pay packages:

Finally, the below Table.B.7.3.b provides the improvement of pay package details in LPA of >4 , =4 to >3, =3 to >2 , =2 to >1 for CAYm3(2017-18),LYG(2016-17),LYGm1(2015-16), LYGm2(2014-15),LYGm3(2013-14)respectively.

Year of Entry	Total No. of students	Total No. of Placements	Total No. of placed students	>4 (in LPA)	=4 to >3 (in LPA)	=3 to >2 (in LPA)	=2 to >1 (in LPA)
LYGm3 (2013-14)	155	152	131	5	45	11	70
LYGm2 (2014-15)	170	165	142	1	73	35	35
LYGm1 (2015-16)	183	249	165	2	65	42	56
LYG (2016-17)	189	256	149	9	86	23	31
CAYm3 (2017-18)	195	243	150	61	70	19	-

Table.B.7.3.b: Average Placement details

Core Hiring Industry:

Below Table B.7.3.c provides placement data during the academic year 2020-21 for (2017-21) admitted batch students with Top MNCs like Mphasis, BYJU's, PWC, IBM, Accenture, Capgemini, Cognizant, Tech Mahindra, TCS, Infosys, Wipro etc. and achieved 76 % of placements with a maximum package of 7LPA.

S. No.	Name of the company	Number of Placed Students	Salary offered (in LPA)
1.	MPHASIS	2	7.00
2.	BYJU'S	1	6.00
3.	PWC	1	5.00
4.	HARMAN	1	5.00
5.	TECH MAHINDRA	1	5.00
6.	TECHIGAI	2	5.00
7.	ACCENTURE	42	4.50
8.	AMDOCS	1	4.50
9.	PWC	1	4.50
10.	IBM	2	4.25
11.	COGNIZANT	8	4.20
12.	ABSOLINSOFT	1	4.00
13.	BRIGHT	2	4.00
14.	COGNIZANT	1	4.00

15.	MIND TREE	3	4.00
16.	EFFTRONICS	1	3.98
17.	CAPGEMINI	3	3.80
18.	VOLTEO DIGITAL	1	3.80
19.	WIPRO	8	3.80
20.	EDWISOR	19	3.70
21.	AVASOFT	1	3.60
22.	INFOSYS	13	3.60
23.	IBM	1	3.50
24.	SYNTEL	3	3.40
25.	TCS	10	3.36
26.	TECH MAHINDRA	3	3.20
27.	NNIIT	1	3.00
28.	TECH DENALI	1	3.00
29.	PCS TECHNOLOGIES	16	2.20
30.	CSS CORP	1	2.20

Table B.7.3.c: Placement data for the year CAY m3(2017-18)

Below Table B.7.3.d provides placement data during the academic year 2019-20 for (2016-20) admitted batch students with Top MNCs like Amazon, IBM, Accenture, Capgemini, Cognizant, Tech Mahindra, TCS, Infosys, Wipro etc. and achieved 82% of placements with a maximum package of 19LPA

S. No.	Name of the company	Number of Placed Students	Salary offered (in LPA)
1.	AMAZON	1	19.00
2.	AMAZON	1	4.25
3.	IBM	3	4.25
4.	IBM	4	4.20
5.	APCFSS	1	4.00
6.	DXC TECHNOLOGY	8	4.00
7.	ACCENTURE	28	3.83
8.	VALUE CHAIN	1	3.80
9.	CAPGEMINI	13	3.60
10.	COGNIZANT	2	3.60
11.	INFOSYS	1	3.60
12.	TCS	10	3.60
13.	INFOSYS	1	3.50
14.	CAPGEMINI	1	3.50

15.	INFOSYS	9	3.40
16.	WIPRO	2	3.40
17.	TECH MAHINDRA	1	3.25
18.	TECH MAHINDRA	7	3.20
19.	SUTHERLAND	24	2.80
20.	SUTHERLAND (NON-VOICE)	3	2.80
21.	ALLSEC TECHNOLOGIES	1	1.80
22.	CHANDUSOFT	1	1.80
23.	NVIDIA	1	1.80
24.	SUTHERLAND	1	1.80
25.	IPROCESS	23	1.50
26.	SLK SOFTWARE/ VFISLK	1	1.50

Table B.7.3.d: Placement data for the year LYG (2016-17)

Below Table B.7.3.e provides placement data during the academic year 2018-19 for (2015-19) admitted batch students with Top MNCs like Amazon, Microsoft, Juspay, Accenture, Capgemini, TCS, Infosys, Wipro etc. and achieved 92% of placements with a maximum package of 18LPA.

Sl. No.	Name of the company	Number of Placed Students	Salary offered (In LPA)
1.	AMAZON	1	18.00
2.	TEKSYSTEMS	1	6.50
3.	ACCENTURE	1	4.50
4.	SYNTEL	17	3.60
5.	TCS CODEVITA	1	3.60
6.	CAPGEMINI	7	3.50
7.	IBM	1	3.50
8.	INFOSYS	2	3.50
9.	TCS	9	3.50
10.	WIPRO	23	3.50
11.	COGNIZENT	1	3.38
12.	QSPIDERS/JSPIDERS	4	3.20
13.	PATHFRONT	16	3.00
14.	MPHASIS	1	2.50
15.	CONDUENT	1	2.40

16.	IBEON INFOTECH	22	2.40
17.	IT SEZ	1	2.40
18.	THINKSYNQ	33	1.68
19.	IPROCESS	19	1.56
20.	TECH MBPS	2	1.50
21.	GLENWOODSYS	1	2.70
22.	FLEXTRONIX	1	1.40
23.	FOXCONN	1	1.40

Table B.7.3.e: Placement data for the LYGm1(2015-16)

Below Table B.7.3.f provides placement data during the academic year 2017-18 for (2014-18) admitted batch students with Top MNCs like ZOHO Software, TCS, IBM, Capgemini, Infosys, and other MNCs visited the campus and achieved 87 % of placements with a maximum package of 4.5LPA

Sl. No.	Name of the company	Number of Placed Students	Salary offered (in LPA)
1.	ZOHO SOFTWARE LIMTIED	1	4.50
2.	TCS	6	3.60
3.	ACENTURE	2	3.50
4.	ADP LIMITED	1	3.50
5.	FLUENTGRID	2	3.50
6.	IBM	10	3.50
7.	MINDTREE	1	3.50
8.	MOURITECH	1	3.50
9.	IBM	9	3.25
10.	INFOSYS	11	3.25
11.	NEUDESIC	1	3.20
12.	CAMPGEMINI	28	3.15
13.	COGNIZANT(CTS)	1	3.15
14.	FACE	10	2.64
15.	THINKTEL SOLUTIONS	25	2.50
16.	IBEON INFOTECH	2	2.40
17.	AMAZON	1	2.46
18.	VDART Software Solutions	5	2.00
19.	BRAIN- O-VISION	4	2.00
20.	SUTHERLAND	09	1.85
21.	TECH MAHINDRA	3	1.70
22.	GRAMA SACHIVALAYAM	1	1.50
23.	HCL	1	1.50
24.	NAVAJNA TECHNOLOGIES	1	1.50

25.	OMNICLOUD	1	1.50
26.	IT KA KAAM	1	1.25
27.	CPGC PVT.LTD	1	1.25
28.	DXC TECHNOLOGIES	2	1.20
29.	GENPACK	1	1.20

Table B.7.3.f: Placement data for the year LYGm2(2014-15)

Below Table B.7.3.g provides placement data during the academic year 2016-17 for(2013-17) admitted batch students with Top MNCs like Juspay, Microsoft, TCS, Tech Mahindra, Capgemini, and other MNCs visited the campus and achieved 87 % of placements with a maximum package of 12.00 LPA

Sl. No.	Name of the company	Number of Placed Students	Salary offered (in LPA)
1.	JUSPAY	1	12.00
2.	MICROSOFT	2	10.00
3.	OPEN TEXT	2	5.00
4.	FLUENTGRID	4	4.00
5.	TECH MAHINDRA	39	3.25
6.	TCS	2	3.25
7.	CAPGEMINI	2	3.00
8.	THOUGHTWAVE	1	2.40
9.	GENPACT	3	2.40
10.	EXPERIS IT	5	2.10
11.	TECTURA INFO	3	2.00
12.	MIRCALE SOFTWARE	1	2.00
13.	BRAIN-O-VISION	4	2.00
14.	DELL CAMPASSADOR	1	2.00
15.	HCL	18	2.00
16.	SUTHERLAND	26	2.00
17.	HGS	15	1.73
18.	EGS-INFOTECH PVT LTD	1	1.50
19.	PATHRA TECH	1	1.40

Table B.7.3.g: Placement data for the year LYGm3(2013-14)

Impact Analysis of MNC's visiting Campus for last three Assessment years:

VIEW is dedicated to produce accepted professionals with skills and technical knowledge to meet the needs of MNC. The following are the MNC's visited the campus for consecutive assessment years LYGm1(2015-16), LYGm2(2014-15), LYGm3(2013-14) proves the outcome of the B. Tech Computer Science and Engineering program.

During CAYm3(2017-18), LYG(2016-17), MNC's condcuted placement drives through online mode like TCS, ACCENTURE, TECH MAHINDRA, IBM, WIPRO, COGNIZANT, CAPGEMINI, INFOSYS, BYJU'S, MPHASIS etc.

S.No	Company	Frequency of companies visited to campus
1.	amazon	✓ Visited twice to campus [(2018-19), (2017-18)]
2.	Microsoft	✓ Visited twice to campus [(2017-18), (2016-17)]
3.	JUSPAY	✓ Visited one time to campus [(2016-17)]
4.	IBM	✓ Visited twice to campus [(2018-19), (2017-18)]
5.	Cognizant	✓ Visited three times to campus [(2018-19), (2017-18),(2016-17)]
6.	Capgemini	✓ Visited three times to campus [(2018-19), (2017-18),(2016-17)]
7.	TATA CONSULTANCY SERVICES	✓ Visited three times to campus [(2018-19),(2017-18),(2016-17)]

8.	wipro	✓ **Visited once to campus [(2018-19)]**
9.	Infosys®	✓ **Visited twice to campus [(2018-19) (2017-18)]**
10.	accenture	✓ **Visited once to campus [(2017-18)]**
11.	Tech Mahindra	✓ **Visited twice to campus [(2017-18) & (2016-17)]**
12.	BRAIN O VISION	✓ **Visited twice to campus [(2018-19) (2017-18)]**

Table B.7.3.h: List of Top MNCS Visited and frequency

B. Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions.

Assessment year	Registered Number	Student name	Branch/college
CAYm4 (2016-17)	13NM1A05B2	S. V. N. Srivalla	M.Tech (JNTUK)
	13NM1A0511	Avuthu Pratyusha	MBA (JNTUK)
	13NM1A05C7	V.Manasa	M.Tech (Andhra University)
	13NM1A05B8	S. Tanooja Rani	M.Tech (Andhra University)
	14NM5A0520	Laxmi Prasana	M.Tech (Andhra University)
	14NM5A0516	Subhasree	M.Tech (Andhra University)
	14NM5A0521	S. Divya	M.Tech (JNTUK)
CAYm3 (2017-16)	14NM1A05D0	G. Anusha	M.Tech (Andhra University)

	14NM1A05D6	K. Supraja	M.S CQ University (Australia)
	15NM5A0505	Ch. Bharathi	M.Tech (Andhra University)
	14NM1A0501	Afsheen Firdous	M.Tech (Andhra University)
	14NM1A0513	Chanchali Anitha	M.Tech (JNTUK)
	14NM1A0534	Ganivada Mounika	M.Tech (G.V.P. Engg., College)
CAYm2 (2018-19)	15NM1A0548	K. Likhitha	MBA (Dr.L. Bullaya College)
	15NM1A0505	Anujum Javeria	M.Tech (Andhra University)
CAYm1 (2019-20)	16NM1A05F5	K. Raga Deepika	M.Tech (JNTUK)
	16NM1A0575	M.Joshna	M.Tech (Andhra University)
	16NM1A0551	K. Padmavathi	M.Tech (G.V.P. Engg., College)
	16NM1A0539	G. Praharsha	MS (Cape Breton University)
	16NM1A0544	G. Naga Sai Lalitya	MS (Clark University)
CAY (2020-21)	*In process		

Table B.7.3.i: Higher studies

C. Entrepreneurs

Assessment year	Registered Number	Student name	Branch/college
CAYm4 (2016-17)	13NM1A0537	Gudupu Ashwini	Freelancer (Ashu Creations)
	13NM1A05A9	T. Bindu Sai	Entrepreneur (Global Venture Project)
CAYm3 (2017-18)	14NM5A0523	Krathi karuna	Freelancer (Software development)
CAYm2 (2018-19)	15NM1A05D9	K. Bhavanshya	Startup (Digital-Marking Coding School)
CAYm1 (2019-20)	16NM1A05E8	Pasem Harshitha	Startup (V-Aahar)

Table B.7.3.j: Entrepreneur

7.4 Improvement in the quality of students admitted to the program (10)

(Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.)

The following Table B.7.4 depicts the quality of students admitted into the CSE program. The EAMCET and ECET qualified students joined the program with a good academic merit in 12th standard/intermediate marks. The opening & closing ranks along with the average percentage is mentioned in the table.

Quality of students admitted to the program

Item		CAY (2020-21)	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)
State/ University/ Level Entrance Examination/ Others Andhra Pradesh Engineering	No. of students admitted	186	187	171	177
	Opening Score/Rank	12993	13782	9265	8392
	Closing Score/Rank	121174	129264	125872	136645
Name of the Entrance Examination for Lateral Entry or lateral entry details Andhra Pradesh Engineering	No. of students admitted	18	18	21	14
	Opening Score/Rank	103	77	33	56
	Closing Score/Rank	3223	5200	1280	952
Average CBSE/Any other Board Result of admitted students (Physics, Chemistry & Math's)		90	92	90	89

Table B.7.4: Quality of students admitted to the program

Criterion 8	First Year Academics	50 M

8.1	First Year Student Faculty Ratio (FYSFR)	5M
8.2	Qualification of Faculty Teaching First Year Common Courses	5M
8.3	First Year Academic Performance	10M
8.4	Attainment of Course Outcomes of First Year Courses	10M
8.5	Attainment of Program Outcomes for first year courses	20M

Criterion 8	First Year Academics	50M

8.1. First Year Student Faculty Ratio (FYSFR) (5)

Please provide First year faculty information considering load for the particular program

S.No.	Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)				Currently Associated (Yes/No)	Nature Of Association (Regular/Contract)	Date Of leaving (In case Currently Associated is 'No')
								CAY (2020-21)	CAYm1 (2019-20)	CAYm2 (2018-19)	CAYm3 (2017-18)			
1	Dr. I.S.V. MANJULA	AAMPI1342R	M.A., M.Phil., Ph.D	11.06.2002	English	Professor	03.06.2013	0	0	100	100	No	Regular	10.05.2019
2	Dr. R. SURYA NARAYANA	AFHPR5619C	M.Sc., Ph.D	07.11.2002	Maths	Professor	23.12.2016	0	0	0	100	No	Regular	18.05.2018
3	Dr.T. RADHA KRISHNA MURTHY	ACBPT9094J	M.A., Ph.D	08.05.2014	English	Professor	02.08.2017	100	100	100	100	Yes	Regular	
4	Dr. R. HANUMANTHA RAO	ARIPR1671B	M.Sc., Ph.D	28.07.2012	Physics	Assoc. Prof.	02.08.2012	0	0	100	100	No	Regular	12.06.2019
5	Dr. M. P. V. V. BHASKAR RAO	BBDPM0262K	M.Sc., Ph.D	17/04/2007; 01.02.2020	Maths	Assoc. Prof.	09.05.2014	0	100	100	100	No	Regular	18.12.2020
6	Dr. K. CHAITANYA	AXCPK6723H	M.Sc., Ph.D, PDF	22.01.2011	Physics	Assoc. Prof.	18.05.2017	100	100	100	100	Yes	Regular	
7	Dr.K. VENKATA PRASAD	EFAPK9497G	M.Sc., M.Phil., Ph.D	23.11.2012	Physics	Assoc. Prof.	07.07.2014/ 29.07.2021	50	0	0	100	Yes	Regular	26.07.2018
8	Dr. K. G. B. SANTOSH KUMARI	BKCPS5352N	M.A., M.Phil., Ph.D	04/10/2007; 29.10.2019	English	Assoc. Prof.	07.08.2014		100	100	100	No	Regular	26.10.2020
9	Dr. K. P. SUHASINI	DFMPS6651R	M.Sc., M.Phil., Ph.D	22.09.2013	Chemistry	Assoc. Prof.	27.08.2014	100	100	100	100	Yes	Regular	
10	Mr. .G. V. SATYANARAYANA	AVMPG2969D	M.Sc., M.Phil., Ph.D	18.07.2016	Environmental Science	Assoc. Prof.	01.09.2014	0	0	100	100	No	Regular	23.11.2019
11	Dr. V.R.S S. SRIKANTH	ANPPV7134E	M.Sc., Ph.D	04.09.2014	Chemistry	Assoc. Prof.	18.09.2014	100	100	100	100	Yes	Regular	
12	Dr .B. CHANDRA SEKHAR	BLWPB9428F	M.Sc., Ph.D	31.03.2015	Physics	Assoc. Prof.	20.04.2015	100	100	100	100	Yes	Regular	
13	Dr. SOURI DOMINIC	DBYPS4270Q	M.Sc., Ph.D	26.04.2018	Maths	Assoc. Prof.	01.06.2017	75	100	100	100	Yes	Regular	
14	Dr. CH. MADHAVI	AJWPC8739K	M.Sc.,	01.12.2017	Chemistry	Assoc. Prof.	17.05.2018	0	0	100	0	No	Regular	02.05.2019
15	Dr. A. SANTOSH KUMAR	BNSPA0926P	M.Sc., Ph.D	27.10.2017	Physics	Assoc. Prof.	23.05.2018	0	100	100	0	No	Regular	14.12.2020
16	Dr. J.V.S.K. VASANTHA KALYANI	AOWPJ5812K	M.Sc., Ph.D	17.08.2016	Chemistry	Assoc. Prof.	18.06.2018	0	100	100	0	No	Regular	15.10.2020
17	Dr. K. JYOSTHNA	BODPK1647D	M.Sc., Ph.D	16.06.2015	Maths	Assoc. Prof.	25.06.2018	0	100	100	0	Yes	Regular	
18	Dr. G. MUNI SARALA	BFFPG8198J	M.Sc., Ph.D	11.07.2017	Maths	Assoc. Prof.	25.06.2018	0	100	100	0	No	Regular	30.06.2020
19	Dr. K. SIRISHA	CSLPK3622F	M.Sc., Ph.D	19/04/2012 ; 31.12.2019	Environmental Science	Assoc. Prof.	27.05.2019	0	100	0	0	No	Regular	28.12.2020
20	Dr. D. NIRMALA DEVI	CRRPD9276K	M.Sc., Ph.D	07.01.2020	Chemistry	Assoc. Prof.	19.11.2020	100	0	0	0	Yes	Regular	
21	Mr. CH. S. K. CHAITANYA	APIPC0558G	M.A., (Ph.D)	20.05.2005	English	Asst. Prof.	01.07.2015	100	100	100	100	Yes	Regular	
22	Mr. P. JAYA RANGARAO	AVXPP7975M	M.Sc., M.Phil.,	18.09.2013	Chemistry	Asst. Prof.	18.10.2010	0	0	0	100	No	Regular	31.05.2018
23	Mr. Ch. RAJKUMAR	AIYPC0980B	M.Sc., M.Tech	14.12.2010	Maths	Asst. Prof.	06.08.2012	0	0	0	100	No	Regular	01.07.2018
24	Mr.B. NAGABHUSHANA RAO	BFGPB5493E	M.A., B.Ed., PGDTE	18.05.2006	English	Asst. Prof.	29.04.2015	100	100	100	100	Yes	Regular	
25	Mr.K SURYA NARAYANA RAO	BLTPK9999K	M.Sc., M.Phil., (Ph.D)	15.04.2014	Statistics	Asst. Prof.	10.06.2013	0	50	0	50	Yes	Regular	
26	Mrs. G. VARALAKSHMI	BUGPG3430D	M.Sc., B.Ed.,	25.04.2013	Maths	Asst. Prof.	30.07.2013	0	100	75	75	No	Regular	18.06.2020
27	Ms. N. AMBICA	CDSPM9800K	M.Sc.,	19.04.2014	Chemistry	Asst. Prof.	23.08.2014	0	0	0	100	No	Regular	09.08.2018
28	Ms. T. S. PRIYA DARSHINI	AHHPT5307R	M.A., B.Ed.,	19.04.2012	English	Asst. Prof.	14.11.2014	100	100	100	100	Yes	Regular	
29	Mr. K.V.V. GANESWARA RAO	BYQPK0848B	M.Sc.,	13.07.1995	Maths	Asst. Prof.	24.11.2014	100	100	100	100	Yes	Regular	
30	Mr. S. RAVI KUMAR	CXEPS9961D	M.Sc., (Ph.D)	10.06.2014	Physics	Asst. Prof.	10.12.2014	100	100	100	100	No	Regular	31.07.2021
31	Mrs. SUNEETA KUMARI NAIK	AZDPN6288P	M.Sc.,	29.04.2013	Maths	Asst. Prof.	27.07.2015	0	0	0	100	No	Regular	28.07.2018
32	Mrs. B. V. M. URMILA	BKJPB6752N	M.A.,	28.04.2015	English	Asst. Prof.	07.08.2015	0	0	0	100	No	Regular	19.05.2018
33	Mr. K. SATYAM NAIDU	CXRPK7066C	M.Sc., B.Ed.,	14.04.2015	Chemistry	Asst. Prof.	09.09.2015	0	0	0	100	No	Regular	17.05.2018
34	Ms.K. LAVANYA	EIVPK5469J	M.Sc.,	20.04.2015	Chemistry	Asst. Prof.	01.04.2016	100	100	100	100	Yes	Regular	

35	Mr. K. RAMESH	BDGPK1879P	M.A., (Ph.D)	16.10.2015	English	Asst. Prof.	01.06.2016	0	100	100	100	No	Regular	25.12.2020
36	Mrs. P. VARALAKSHMI	CNXPP8872K	M.Sc.,	19.04.2010	Chemistry	Asst. Prof.	08.06.2017	100	100	100	100	No	Regular	26.07.2021
37	Mrs. A. RAMYA	BCJPA7300M	M.Sc.,	22.04.2015	Chemistry	Asst. Prof.	08.06.2017	0	100	100	100	No	Regular	19.01.2021
38	Mr. S. BALAKRISHNA	ELHPS4074N	M.Sc., M.Phil.,	12.04.2016	Maths	Asst. Prof.	01.06.2016	0	0	0	100	No	Regular	26.05.2018
39	Mr. V. KONDALA RAO	AMGPV7800B	M.Sc.,	28.04.2008	Physics	Asst. Prof.	04.06.2016	0	100	100	100	No	Regular	10.12.2020
40	Mr. S. VASUDEVA RAO	DUCPS5341R	M.A.,	17.04.2007	English	Asst. Prof.	06.02.2017	0	0	0	100	No	Regular	04.06.2018
41	Mr. M. KRISHNA KISHORE	ARBPM4069M	M.Sc.,	01.04.2004	Maths	Asst. Prof.	27.03.2017	30	30	30	30	Yes	Regular	
42	Mrs. S. RASAGNA	ACKPS1697B	M.A., M.Phil.,	16.07.2003	English	Asst. Prof.	17.07.2017	0	0	100	100	No	Regular	25.07.2019
43	Mr. A. GANAPATHI RAO	ATTPA1499H	M.Sc., (Ph.D)	05.01.2010	Maths	Asst. Prof.	02.08.2017	0	100	75	75	Yes	Regular	
44	Mrs. M. PAVANI	EBNPM8889R	M.Sc.,	19.04.2016	Chemistry	Asst. Prof.	06.01.2018	100	100	100	0	Yes	Regular	
45	Mr. S GIRI BABU	BQSPS9707H	M.Sc., B.Ed., APSET	05.07.2000	Maths	Asst. Prof.	17.05.2018	65	100	100	0	Yes	Regular	
46	Mrs. K.S.N.V.L. LAVANYA KUMARI	ANJPL7566Q	M.A.,	25.04.2014	English	Asst. Prof.	17.05.2018	100	100	100	0	No	Regular	25.06.2021
47	Mrs. NISHA HALDAR	BBYPN3252K	M.Sc.,	24.04.2013	Maths	Asst. Prof.	26.05.2018	0	100	100	0	No	Regular	23.07.2020
48	Ms. G. MANIKANTA SRAVANI	BPTPG4049E	M.Sc.,	16.04.2018	Physics	Asst. Prof.	23.07.2018	0	0	100	0	No	Regular	23.05.2019
49	Mr. D. GANESH	BAWPD9333A	M.A., M.Phil.,	21.04.2014	English	Asst. Prof.	15.05.2019	100	100	0	0	No	Regular	16.06.2021
50	Mr. S. MAHESWAR RAO	CLOPS3949B	M.Sc.,	10.04.2019	Physics	Asst. Prof.	18.06.2019	100	100	0	0	No	Regular	26.07.2021
51	Mr. S. CHARISHMA	CKJPC7973D	M.Sc.,	10.11.2020	Maths	Asst. Prof.	29.11.2020	100	0	0	0	Yes	Regular	25.10.2021
52	Mrs. M. VENU MADHURI	CRQPM6640B	M.A.,	11.04.2019	English	Asst. Prof.	04.12.2020	100	0	0	0	Yes	Regular	
53	Mr. A.P. PHANEEDRA KUMAR	BNIPP3423J	M.Sc., M. Phil (Ph.D)	09.12.2009	Maths	Asst. Prof.	05.12.2020	10	0	0	0	Yes	Regular	
54	Mr. K. MURALI	BAPPK9029K	M.Sc.,	14.04.2004	Maths	Asst. Prof.	31.12.2020	60	0	0	0	Yes	Regular	
55	Mrs. M. SATYAVATHI	BMOPM6789H	MBA, M.Phil	07.09.2018	MBA	Asst. Prof.	22-08-2012	0	50	0	0	Yes	Regular	
56	Mr. CHIPURPALLI SEKHAR	AHYPC9768Q	M. Tech	25.11.2011	CSE	Asst. Prof	30.05.2012	100	100	100	100	No	Regular	25.08.2021
57	Mr. MARADA SRINIVASA RAO	CVMPM3963J	M.Tech	24.02.2015	CSE	Asst. Prof	20.04.2015	100	100	100	100	No	Regular	25.08.2021
58	Mrs. G. MANI	ALSPG5442M	M.Tech	29.01.2014	CSE	Asst. Prof	24.07.2015	0	0	100	100	No	Regular	10.06.2019
59	Mr. K LEELA PRASAD	COZPK6490M	M.Tech	16.04.2013	CSIT	Asst. Prof	09.11.2015	0	0	100	100	No	Regular	05.08.2019
60	Mr. GONDETI VINAY REDDY	AYVPG0950G	M.Tech	02.12.2014	CSE	Asst. Prof	06.03.2017	0	100	100	100	No	Regular	28.09.2020
61	Mr. A.KHAN	BCVPP0653A	M.Tech	21.11.2012	CSE	Asst.Prof	12.06.2019	0	100	0	0	No	Regular	10.06.2020
62	Mrs K GURU LAXMI	CXWPK2991P	M.Tech	09.11.2012	IT	Asst.Prof	01.07.2019	100	100	0	0	Yes	Regular	
63	Ms. Ch. USHA	CKNPP4367A	M.Tech	19.12.2012	CSE	Asst.Prof	18.08.2020	100	0	0	0	Yes	Regular	
64	Mr. B.Ch. VENKATA RAMANA	BPPPB7324P	M.Tech	20.12.2017	IT	Asst.Prof	25.09.2020	100	0	0	0	Yes	Regular	
65	Ms. N. DHANA LAKSHMI BHAVANI	PWXPM7386P	M.Tech	17.11.2016	ECE	Asst. Prof	24.07.2019	0	50	0	0	No	Regular	12.08.2020
66	Ms. G. VIJAYA TEJA SWAROOPA	BVQPG2083K	M.Tech	22.08.2018	ECE	Asst. Prof	27.07.2019	0	50	0	0	No	Regular	21.08.2020
67	Mr. B. NAGA SRINIVASA RAO	AJSPN7977L	M.Tech	06.09.2009	ECE	Asst. Prof	26.08.2020	50	0	0	0	Yes	Regular	
68	Ms. P. GOWRI SWETHA	BXOPP9558E	M.Tech	15.02.2016	ECE	Asst. Prof	28.08.2020	50	0	0	0	Yes	Regular	
69	Mr.P.S. V. KISHORE	BWVPK4221K	M.Tech	20.01.2012	EEE	Asst. Prof	19.06.2013	0	0	50	50	No	Regular	15.05.2019
70	Mrs. B. SIRISHA	BDLPB6454N	M.Tech	14.04.2017	EEE	Asst.Prof	05.06.2017	65	50	50	50	No	Regular	18.08.2021
71	Mr. K. SRINIVASA RAO	MVTPS5707G	M.Tech	24.04.2019	EEE	Asst.Prof	11.06.2019	0	50	0	0	Yes	Regular	
72	Mr. A SRINU	BMIPA6071J	M.Tech	17.08.2017	EEE	Asst.Prof	08.07.2019	0	50	0	0	No	Regular	24.03.2021
73	Mrs. G. Mrudula	BZMPG3794B	M.Tech,	10-09-2017	EEE	Asst.Prof	30.11.2020	65	0	0	0	Yes	Regular	
74	Ms. Y. DEEPIKA	APEPY3003L	M.Tech	19.07.2017	EEE	Asst.Prof	10.08.2020	65	0	0	0	Yes	Regular	
75	Mr. V. ANAND BABU	AMRPV5915E	M.Tech(Ph.D)	15.04.2009	MECH	Assoc.Prof	10.07.2014	50	40	55	50	Yes	Regular	
76	Dr. L.V. SURYAM	AGKPL2379P	M.Tech; Ph.D	21.04.2009; 11.02.2020	MECH	Assoc.Prof	02.12.2015	0	40	15	40	No	Regular	20.012021
77	Mrs. K .VAHINI	CCXPK6931M	M.Tech(Ph.D)	10.06.2013	MECH	Asst.Prof	23.04.2014	0	20	0	15	No	Regular	06.01.2021
78	Mr. D. KESAVA	BFBPD6822A	M.Tech	15.04.2016	MECH	Asst.Prof	22.07.2014	0	0	60	15	Yes	Regular	
79	Mr. A.V. PRADEEP	APAPA2361K	M.Tech(Ph.D)	17.08.2011	MECH	Asst.Prof	25.09.2014	0	40	40	15	No	Regular	05.01.2021
80	Mr. S.V. SATYA PRASAD	CSWPS8633R	M.Tech(Ph.D)	18.10.2016	MECH	Asst.Prof	01.12.2014	0	25	0	45	No	Regular	09.02.2021
81	Ms. U. RAMYA SRI	ADQPU2708Q	M.Tech	05.05.2016	MECH	Asst.Prof	06.02.2015	0	0	45	45	Yes	Regular	
82	A. DHANUNJAYA KUMAR	BNPPD8455B	M.Tech	17.07.2013	MECH	Asst.Prof	19.06.2015	0	0	0	40	No	Regular	04.06.2019

83	Y. KESAVA RAO	ALOPY1707F	M.Tech	21.06.2016	MECH	Asst.Prof	19.09.2015	0	0	0	25	No	Regular	30.04.2018
84	P. KIRANMAYI	CCQPP6146Q	M.Tech	16.12.2016	MECH	Asst.Prof	06.04.2017	0	0	0	25	No	Regular	25.07.2019
85	B. PRAMILA DEVI	ALCPP5738K	M.Tech	08.12.2017	MECH	Asst.Prof	12.06.2018	0	0	40	0	No	Regular	08.05.2019
86	Mr. Ch. SURESH	BYKPC6410K	M.Tech	23.10.2018	MECH	Asst.Prof	03.07.2018	65	20	25	0	Yes	Regular	
87	Mrs. P. PRASANNA KUMARI	EMRPK3126C	M.Tech	19.03.2018	MECH	Asst.Prof	23.07.2018	75	15	15	0	Yes	Regular	

Year	Number of Students (approved Intake Strength) N	Number of Faculty members (considering fractional load) F	Faculty Student Ratio (FYSFR) N/F	Assessment = (5 x 20) / FYSFR
2017-18 (CAYm3)	660	43	15	5
2018-19 (CAY m2)	660	42	16	5
2019-20 (CAYm1)	706	41	17	5
Average	675	42	16	5

Year	Number of Students (approved Intake Strength) N	Number of Faculty members (considering fractional load) F	Faculty Student Ratio (FYSFR) N/F	Assessment = (5 x 20) / FYSFR
2018-19 (CAYm2)	660	42	16	5
2019-20 (CAYm1)	706	41	17	5
2020-21 (CAY)	642	33	19	5
Average	669	39	17	5

8.2. Qualification of Faculty Teaching First Year Common Courses (5)

Year	X (Number of Regular Faculty with Ph.D.)	Y (Number of Regular Faculty with PG Qualification)	RF (Number of Faculty Members required as per SFR of 20:1)	(Assessment of faculty qualification) (5x+3y)/RF
2017-18 (CAYm3)	10	43	33	5.00
2018-19 (CAYm2)	14	36	33	5.00
2019-20 (CAYm1)	10	41	35	5.00
Average	**5.0**			

Year	X (Number of Regular Faculty with Ph.D.)	Y (Number of Regular Faculty with PG Qualification)	RF (Number of Faculty Members required as per SFR of 20:1)	(Assessment of faculty qualification) (5x+3y)/RF
2018-19 (CAYm2)	14	36	33	5.00
2019-20 (CAYm1)	10	41	35	5.00
2020-21 (CAY)	10	31	32	5.00
Average	**5.0**			

8.3 First Year Academic Performance (10)

Academic Performance	2019-20 (CAYm1)	2018-19 (CAYm2)	2017-18 (CAYm3)
Mean of CGPA of all successful students (X)	7.90	7.29	7.21
Total number of successful students (Y)	171	174	175
Total number of students appeared in the examination (Z)	171	177	179
API=X*(Y/Z)	7.90	7.17	7.04

Average API[AP1+AP2+AP3)/3]: 7.37

Academic Performance	2020-21 (CAY)	2019-20 (CAYm1)	2018-19 (CAYm2)
Mean of CGPA of all successful students (X)	7.32	7.90	7.29
Total number of successful students (Y)	183	171	174
Total number of students appeared in the examination (Z)	186	171	177
API=X*(Y/Z)	7.20	7.90	7.17

Average API[AP1+AP2+AP3)/3]: 7.42

8.4. Attainment of Course Outcomes of First Year Courses (10)

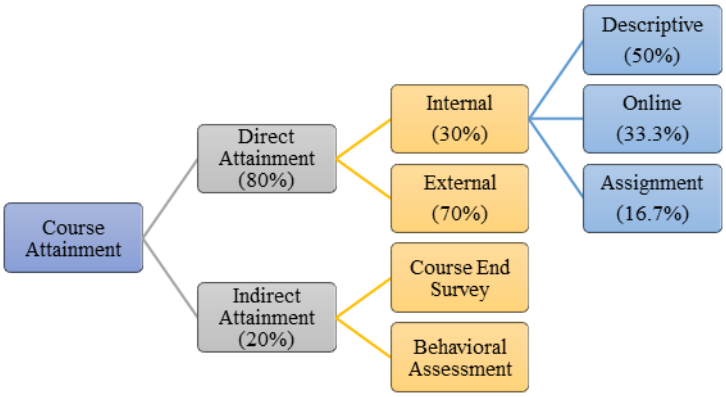
8.4.1. Describe the assessment processes used to gather data upon which the evaluation of course outcomes of first year is based (5)

Course Outcomes are narrower statements that describe and define what students are expected to know and be able to do at the end of each course. They are the measurable parameters which evaluate each student's performance for each course. They cater to the knowledge, skills and behavior that students acquire in their journey/graduation through the course. Semester-wise assessment is done through one or more methods, identifying, collecting and preparing data to assess the performance of the Course Outcomes (COs). The methods are classified into two types: Direct methods and Indirect methods.

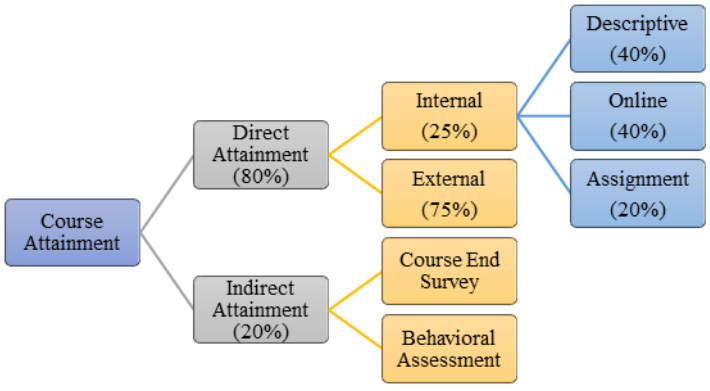
A. List of assessment processes (1)

Direct methods: This method reflect knowledge and skill levels of students through assessment tools such as class tests, mid exams, assignments, semester exams, seminars, laboratory assignments and examinations. These methods offer understanding about what students know and/or can do and provide evidence of levels of students' learning.

Indirect methods: This method includes course end survey and faculty feedback on student behaviour are utilized to gather further awareness about students' learning abilities and disabilities. *Figure 8.4.1a* and the *Table 8.4.1a* represent different methods of the assessment process which reflect attainment levels of the course outcomes, weightage factors and frequency of the assessment cycle.



R16



R19

***Fig. B 8.4.1a* Course attainment process**

B. The relevance of assessment tools used (4)

(i) CO Assessment Process for Theory Courses

The internal assessment of each student for theory courses consists of two descriptive mid examinations, two online quiz examinations and six assignments (for every mid-term three assignments will be considered). The descriptive examinations and assignments are conducted by the respective faculty members whereas online quiz is completely conducted by the University.

Type of Assessment	Course Assessment and Evaluation Method	Assessment Frequency	Description	Weightage for Assessment	Weightage for CO Attainment
Direct Assessment	Internal Mid Examination	Twice in a Semester	• The internal assessment of the theory course is based on the two mid exams conducted each semester according to the academic calendar set by the University. • Each theory course examination should be set for a maximum of 15 marks in descriptive pattern. • The respective course teacher prepares question paper as per the course outcomes for the relevant course by following the Blooms taxonomy and forwards the same to the Examination Cell. • Student performance is assessed in the mid exams according to the scheme of evaluation and key prepared by the respective course teacher.	30%	80%
	Online Quiz	Twice in a semester	• The online quiz for the theory courses is conducted along with the descriptive mid examination each semester by the University. • The online quiz examination consists of 20		

			objective questions for a maximum of 10 marks. • Quiz marks are recorded for assessing the attainment of COs		
	Assignments	Six in a semester (3 per mid-term)	• Assignment is a metric used to assess students' analytical and problem-solving abilities. • Assignment questions are prepared for each topic/unit in the course. • Course related tasks are assigned to each student. • Marks are assigned depending on their performance & innovation in solving/deriving the problems. • The assignment works submitted by students are assessed towards CO attainment.		
	Semester End Examination	Once in a semester	• At the end of each semester, external examination is conducted for a maximum of 70 marks by the University. • End examination is set in descriptive pattern generally satisfying the all course outcomes.	70%	
Indirect Assessment	Course Exit Survey	End of Semester	• On completion of each semester, feedback is obtained from the students for the courses they have attended. • Recorded for assessing the attainment of COs		20%
	Behavioral Assessment	Throughout the Semester	• Each student is assessed based on participation and performance in Technical, Social Events & Extra-curricular activities		

Table B 8.4.1a Assessment tools for the calculation of course outcomes (R16)

Type of Assessment	Course Assessment and Evaluation Method	Assessment Frequency	Description	Weightage for Assessment	Weightage for CO Attainment
Direct Assessment	Internal Mid Examination	Twice in a Semester	• The internal assessment of the theory course is based on the two mid exams conducted each semester according to the academic calendar set by the University. • Each theory course examination should be set for a maximum of 10 marks in descriptive pattern. • The respective course teacher prepares question paper as per the course outcomes for the relevant course by following the Blooms taxonomy and forwards the same to the Examination Cell. • Student performance is assessed in the mid exams according to the scheme of evaluation and key prepared by the respective course teacher.	25%	80%
	Online Quiz	Twice in a semester	• The online quiz for the theory courses is conducted along with the descriptive mid examination each semester by the University. • The online quiz examination consists of 20 objective questions for a maximum of 10 marks. • Quiz marks are recorded for assessing the attainment of COs		
	Assignments	Six in a semester (3 per mid-	• Assignment is a metric used to assess students' analytical and problem-solving abilities. • Assignment questions are prepared for each		

		term)	topic/unit in the course. • Course related tasks are assigned to each student. • Marks are assigned depending on their performance & innovation in solving/deriving the problems. • The assignment works submitted by students are assessed towards CO attainment.		
	Semester End Examination	Once in a semester	• At the end of each semester, external examination is conducted for a maximum of 75 marks by the University. • End examination is set in descriptive pattern generally satisfying the all course outcomes.	75%	
Indirect Assessment	Course Exit Survey	End of Semester	• On completion of each semester, feedback is obtained from the students for the courses they have attended. • Recorded for assessing the attainment of COs		20%
	Behavioral Assessment	Throughout the Semester	• Each student is assessed based on participation and performance in Technical, Social Events & Extra-curricular activities		

Assessment tools for the calculation of course outcomes (R19)

Sample Assignment

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Approved by AICTE, New Delhi, Affiliated to JNTU Kakinada
Kapujaggarajupeta, VSEZ(Post), Gajuwaka, Visakhapatnam-530049, AP

DEPARTMENT OF BASIC SCIENCES& HUMANITIES

ASSIGNMENT QUESTIONS: MID-I

Course Name: **Applied Physics**	Course Code: **R 1 9 BS1204**
Year /Sem: **I-II/CSE**	Regulation: **R19**
Admitted Batch:**2019**	Academic Year:**2019-23**
Course Coordinator: **Dr. Chandra S Beera,**	Faculty Name: **Mr. A. Santhosh**

Ass. No.	CO Level	Question Level	Q. No.	Questions	Issue Date	Submission Date
Assignment 1	CO1-K2	K2	1.	Describe the Resolving power of an optical instrument.		
		K2	2.	Explain why the centres of Newton's Rings are dark in the reflected system.		
Assignment 2	CO2-K2	K2	1.	Discuss the theory of Fraunhoffer diffraction due to N-slits		
		K2	2.	Describe in detail about Davisson Germer experiment with neat sketch		
Assignment 3	CO3-K3	K3	1.	Explain the principle, construction and working of He-Ne LASER.		
		K3	2.	Determine the electrical conductivity of a metal based on quantum free electron theory.		

Sample Mid Term Question Paper

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Kapujaggarajupeta, VSEZ(Post), Visakhapatnam-530 049)

Mid Term Examination-I **SET-1**

(I- B.Tech, II Sem, Regulations: R19)

Course Name: **APPLIED PHYSICS** Max Time: **1 ½ Hrs.**

Branches: **CSE** Max Marks: **20**

Faculty: **Dr. Chandra S Beera, Mr.A.Santhosh** Date: **02.12.2020**

CO: Course Outcome no. (1-5), LEVEL: Revised Bloom's Taxonomy level no. (1-6)

CO	LEVEL	Q.No	QUESTIONS	
CO1	1a: K3 1b: K2	01	a) Discuss the theory of thin films and derive the condition for constructive and destructive interference in the case of reflected system. b) Describe the Resolving power of an optical instrument.	8M
CO2	2a: K3 2b: K2	02	a) Apply Schrodinger's wave equation to the case of the particle in a box and show that the energies of particle are quantized. b) Describe in detail about Davisson Germer experiment with neat sketch.	8M
CO3	3a: K3 3b: K2	03	a) Determine the electrical conductivity of a metal based on classical free electron theory. b) State and explain Bloch theorem.	4M

*** K1 (R): Remembering, K2 (U): Understanding, K3 (P): Applying,**
*** K4 (A): Analyzing, K5 (E): Evaluating, K6 (C): Creating.**

COURSE CODE:R 1 9 BS1204

Behavioral Assessment

Students after entering into a professional program have to undergo a lot of qualitative change in terms of their behavior. During their four years stay at the institution this aspect has been taken seriously as a part of students' internal assessment. Strictly adhering to the curriculum prescribed by the University at the first-year level, the department of B S & H simultaneously follows a system of continuous assessment of the student by measuring and estimating their behavioral aspects in order to improve their attitude, values and behavior with respect to Program Outcomes. These aspects consist of

1. Social responsibility (PO 6)
2. Environmental consciousness (PO 7)
3. Ethical values (PO 8)
4. Teamwork (PO 9)
5. Communication Skills (PO 10)
6. Leadership skills (PO11)

Some activities are arranged to measure these aspects in students throughout the first-year course work. They are:

- Interactive sessions by renowned personalities in the fields of social work, literature, movies, arts and industry.
- Social service activities such as conducting health camps, blood camps, eye-checkup camps; visits to near-by villages for service; visits to orphanages and under privileged places to offer the helping hand by kind and cash.
- Clean & Green activities consisting of Swatch Bharat; Plantation programs; promoting eco-friendly measures in religious and social occasions; Beach cleaning activity
- Sending students to industries and making them aware of their role as engineer
- Organizing picnics to promote harmonious social culture and togetherness
- Celebration of important days of national significance by involving the student teams right from the planning stage to execution stage in conducting those events
- Celebrating all the religious and cultural festivals
- Through Language Club essay writing competitions, poster presentations, group discussions and debates to improve their social awareness, expression capacities and confidence levels.

- Constant mentoring and counseling through Class Coordinator and Counselor system in sorting out their emotional and academic issues.
- Encouraging the students to actively participate in games & sports inside and outside the college to boost up their physical fitness and morale.

Rubric for Assessment of Behavioral Aspects

	Low – (1)	**Moderate – (2)**	**High – (3)**
Social Responsibility	No active participation	Able to participate but poor performance	Very active participation and performance
Environmental Consciousness	Low awareness levels	Adequate level of awareness	Well informed and putting into practice
Ethical Values	Ethical concerns are missing	Flexible attitude towards ethical values	Full appreciation of ethical values and following them
Teamwork	Uneven role assignment and limited awareness about responsibilities	Fair distribution of workload and respect towards the team	Clearly defined roles & increased level of clarity, cooperation and respect
Communication Skills	Inadequate	adequate	Very effective
Leadership Traits	Passive	sufficient	Proactive and active listener

Table B.8.4.1.b: Rubric for behavioral assessment

Based on the level of ***participation and performance*** in the above-mentioned year long activities students will be assessed. Lowly scored students will be identified.

Corrective and Transformation Measures:

- Bringing them to the front in the next activity;
- Motivating them;
- Inspiring them;
- Taking personal interest in them and encouraging them to see others and read literature;
- Empathizing with their social & economic concerns and slowly changing their focus towards positivity
- Changing group composition within the section and mixing with other sections and branches

(ii) CO Assessment Process for Laboratory Courses

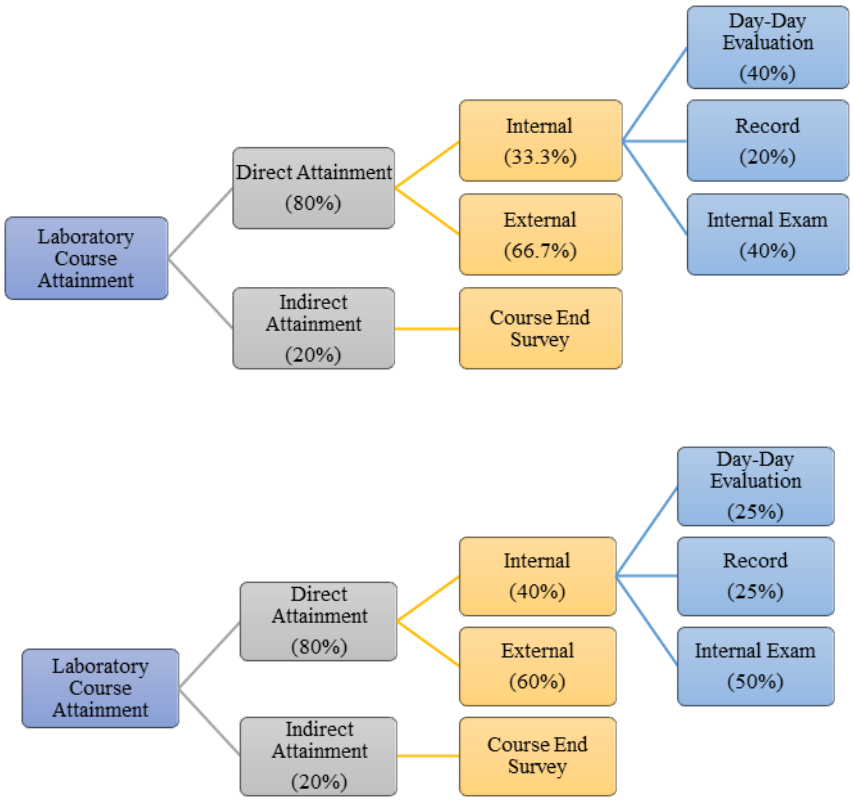


Fig. B 8.4.1b CO assessment process for Laboratory

Type of Assessment	Course Assessment and Evaluation Method	Description	Weightage for Assessment	Weightage for CO Attainment
Direct Assessment	Internal	• Lab Assignment/Experiment is a qualitative performance assessment tool designed to assess students' practical knowledge and problem-solving skills. • Internal assessment of students for laboratory courses is based on continuous evaluation of laboratory experiment work done by the students, their record work and performance in	33.3%	80%

		the internal examination. • Internal examinations are conducted by the respective faculty members. • Each laboratory course shall have a maximum of 25 internal marks. • The marks distribution for the laboratory courses is as follows ○ Continuous Assessment (10) ○ Record (5) ○ Internal Exam (10)		
	External	• End Semester practical examinations are the metric to assess the course outcomes. • External examination is conducted for a maximum of 50 marks by the University.	66.7%	
Indirect Assessment	Course Exit Survey	• On completion of each semester, feedback is obtained from the students for the courses they have attended. • Recorded for assessing the attainment of COs		20%

Table B 8.4.1c CO assessment process for Laboratory (R16)

Type of Assessment	Course Assessment and Evaluation Method	Description	Weightage for Assessment	Weightage for CO Attainment
Direct Assessment	Internal	• Lab Assignment/Experiment is a qualitative performance assessment tool designed to assess students' practical knowledge and problem-solving skills. • Internal assessment of students for laboratory courses is based on continuous evaluation of laboratory experiment work done by the students, their record work and performance in	40%	80%

		the internal examination. • Internal examinations are conducted by the respective faculty members. • Each laboratory course shall have a maximum of 20 internal marks. • The marks distribution for the laboratory courses is as follows ○ Continuous Assessment (5) ○ Record (5) ○ Internal Exam (10)		
	External	• End Semester practical examinations are the metric to assess the course outcomes. • External examination is conducted for a maximum of 30 marks by the University.	60%	
Indirect Assessment	Course Exit Survey	• On completion of each semester, feedback is obtained from the students for the courses they have attended. • Recorded for assessing the attainment of COs		20%

CO assessment process for Laboratory (R19)

Laboratory Continuous Assessment

Continuous assessment for laboratory courses is done to enable a measurable rate of progress and learning for students throughout the course period. Regular monitoring facilitates scope for improvement and remedial action in assessing the performance of the students.

Assessment for Science Laboratory

Attendance	Experiment Procedure	Result	Handling / Safety	Record Submission
2	2	2	2	2

Assessment for Language laboratory

Attendance	Activity	LSRW Skills	Body Language	Activity Record
2	2	2	2	2

The Relevance of Assessment Tools Used:

- The assessment tools evaluate the student's knowledge and ability to apply their skills through continuous assessment process such as internal examinations, end semester examinations, presentations, assignments, tutorials etc. These tools reflect the levels of student learning. The weightage given for various assessment tools used for the attainment of Course Outcomes is shown in Table 8.4.1a & 8.4.1b
- The CO attainment level is measured based on internal assessment and external examination conducted by the University. It is a form of measure of direct attainment. The University conducts two internal exams for each course in a semester.
- In each exam, the percentage of students achieving a set target is calculated for the covered COs. After two tests, the average of these percentages is calculated to determine the attainment level. The guidelines for deciding the attainment levels are as follows:
    - Attainment Level 1: 60% of students' scores more than the target level.
    - Attainment Level 2: 70% of students' scores more than the target level.
    - Attainment Level 3: 80% of students' scores more than the target level.
- According to the weightage given by the University, 33% of the internal attainment and 67% of the external attainment is considered to be the course attainment through marks.
- Individual faculty will conduct the course end survey on the course outcomes at the end of every semester.
- Hence, 80% of the attainment level obtained through marks and 20% of the attainment level obtained through end survey, feedback, is considered to be the total Course Attainment

8.4.2. Record the attainment of the course outcomes of all first-year courses (5)

The course outcome attainments for 2016-17, 2017-18, 2018-19 and 2019-20 are given below

CAYm4: 2016 – 17

Course Code	Course Name	Direct Attainment (DA) (80%)	Indirect Attainment (IA) (20%)	Course Attainment (DA+IA)
C101	English-I	1.88	0.59	2.47
C102	Mathematics-1	1.80	0.57	2.37
C103	Mathematics-II	1.80	0.54	2.34
C104	Applied Physics	1.72	0.58	2.30
C105	Computer Programming	1.88	0.56	2.44
C106	Engineering Drawing	2.40	0.58	2.98
C107	English Communications Skills Lab-I	2.40	0.57	2.97
C108	Applied Physics Lab	2.40	0.57	2.97
C110	Computer Programming lab	2.40	0.58	2.98
C111	English -II	1.96	0.57	2.53
C112	Mathematics -III	1.92	0.56	2.48
C113	Applied Chemistry	1.84	0.56	2.40
C114	OOPS through C++	2.20	0.58	2.78
C115	Environmental Studies	2.16	0.56	2.72
C116	Engineering Mechanics	1.68	0.59	2.27
C117	Applied Chemistry Lab	2.40	0.59	2.99
C118	English Communications Skills Lab-II	2.40	0.58	2.98
C119	OOPS through C++ Lab	2.40	0.58	2.98

Table B 8.4.2a: Course Outcome attainments for CAYm4 (2016-17)

CAYm3: 2017 – 18

Course Code	Course Name	Direct Attainment (DA) (80%)	Indirect Attainment (IA) (20%)	Course Attainment (DA+IA)
C101	English-I	2.32	0.57	2.89
C102	Mathematics-1	2.04	0.56	2.60
C103	Mathematics-II	1.84	0.56	2.40
C104	Applied Physics	1.92	0.54	2.46
C105	Computer Programming	2.12	0.56	2.68
C106	Engineering Drawing	2.32	0.58	2.90
C107	English Communications Skills Lab-I	2.40	0.57	2.97
C108	Applied Physics Lab	2.40	0.56	2.96
C110	Computer Programming lab	2.40	0.56	2.96
C111	English -II	2.04	0.56	2.59
C112	Mathematics -III	2.28	0.57	2.85
C113	Applied Chemistry	2.00	0.56	2.56
C114	OOPS through C++	2.24	0.55	2.79
C115	Environmental Studies	2.32	0.58	2.90
C116	Engineering Mechanics	1.84	0.57	2.41
C117	Applied Chemistry Lab	2.40	0.56	2.96
C118	English Communications Skills Lab-II	2.40	0.58	2.98
C119	OOPS through C++ Lab	2.40	0.56	2.96

Table B.8.4.2.b: Course Outcome attainments for CAYm3 (2017-18)

CAYm2: 2018 – 19

Course Code	Course Name	Direct Attainment (DA) (80%)	Indirect Attainment (IA) (20%)	Course Attainment (DA+IA)
C101	English-I	2.28	0.59	2.87
C102	Mathematics-1	2.12	0.54	2.66
C103	Mathematics-II	2.16	0.57	2.73
C104	Applied Physics	2.04	0.55	2.59
C105	Computer Programming	2.04	0.56	2.60
C106	Engineering Drawing	2.32	0.58	2.90
C107	English Communications Skills Lab-I	2.40	0.59	2.99
C108	Applied Physics Lab	2.40	0.58	2.98
C110	Computer Programming lab	2.40	0.58	2.98
C111	English -II	2.40	0.57	2.97
C112	Mathematics -III	2.20	0.56	2.76
C113	Applied Chemistry	2.04	0.55	2.59
C114	OOPS through C++	2.24	0.57	2.81
C115	Environmental Studies	2.28	0.56	2.84
C116	Engineering Mechanics	2.12	0.55	2.67
C117	Applied Chemistry Lab	2.40	0.58	2.98
C118	English Communications Skills Lab-II	2.40	0.59	2.99
C119	OOPS through C++ Lab	2.40	0.59	2.99

Table B.8.4.2.c: Course Outcome attainments for CAYm2 (2018-19)

CAYm1: 2019– 20

Course Code	Course Name	Direct Attainment (DA) (80%)	Indirect Attainment (IA) (20%)	Course Attainment (DA+IA)
C101	English	2.20	0.58	2.78
C102	Mathematics –I	1.88	0.59	2.47
C103	Applied Chemistry	1.70	0.58	2.28
C104	Fundamentals of Computer Science	2.37	0.58	2.95
C105	Engineering Drawing	2.36	0.57	2.93
C106	ECS Lab	2.40	0.59	2.99
C107	Applied Chemistry Lab	2.40	0.58	2.98
C108	IT workshop	2.40	0.58	2.98
C110	Mathematics-II	1.80	0.59	2.39
C111	Mathematics –III	1.80	0.60	2.40
C112	Applied Physics	1.93	0.59	2.52
C113	PPSC	2.40	0.51	2.91
C114	Digital Logic Design	2.00	0.51	2.51
C115	Applied Physics Lab	2.40	0.58	2.98
C116	Communication Skills lab	2.40	0.58	2.98
C117	PPSC lab	2.40	0.58	2.98

Course Outcome attainments for CAYm1 (2019-20)

The graphical representation of CO attainments for each course is presented below for the academic years 2016-17, 2017-18 and 2018-19 admitted batches.

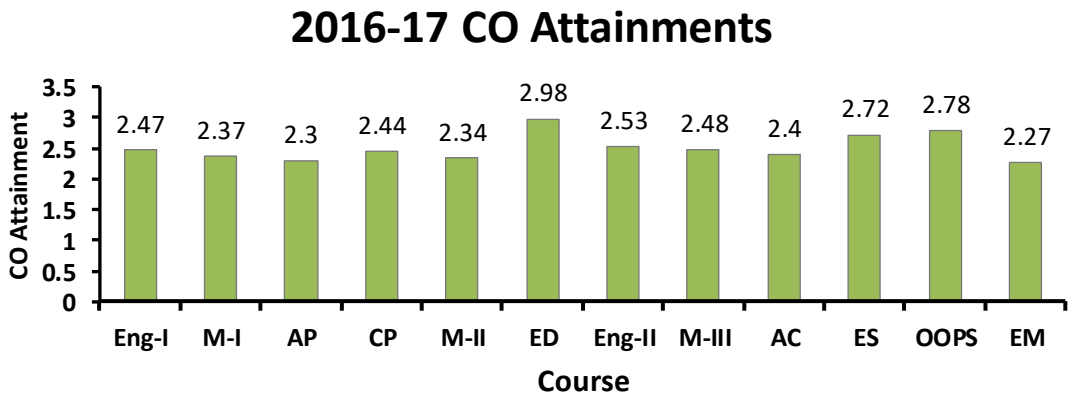


Figure B.8.4.2.a: Graphical representation of attainment levels of various courses during the academic year 2016 - 17

Observation: During 2016-17 academic year the attainment for the courses Mathematics-I, Applied Physics, Mathematics-III, and Engineering Mechanics was comparatively low. This may be due to lack of conceptual knowledge and grounding in Mathematics, Physics and Chemistry.

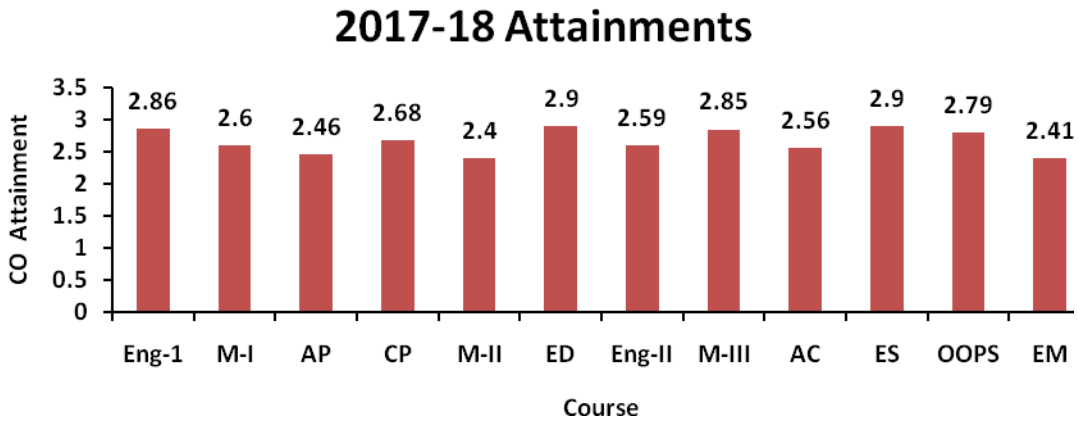


Figure B. 8.4.2.b: Graphical representation of attainment levels of various courses during the academic year 2017 – 18

Observation: During 2017-18 academic year, all the course attainments are above 2.4.

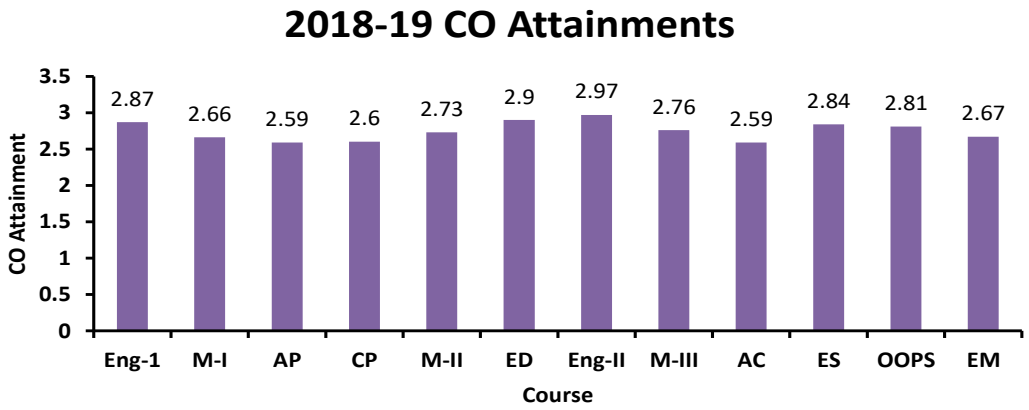


Figure B 8.4.2.c: Graphical representation of attainment levels of various courses during the academic year 2018 - 19

Observation: During 2018-19 academic year all the course attainments are above 2.4.

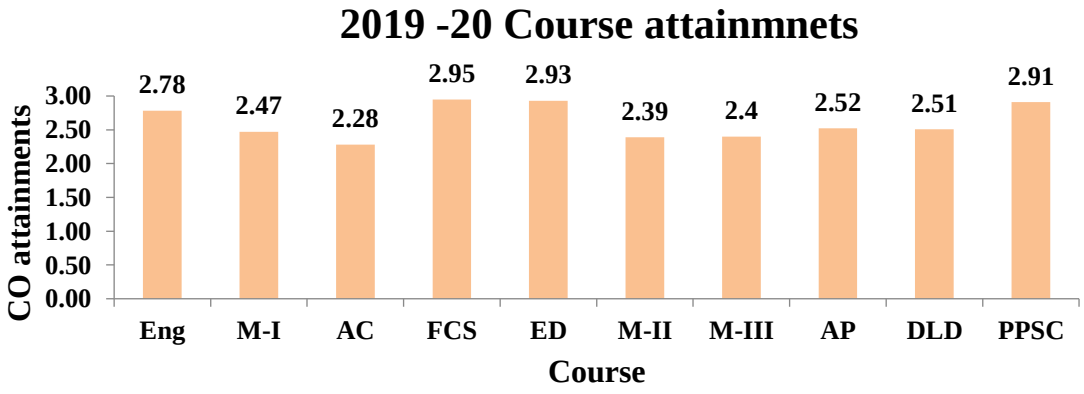


Figure B 8.4.2.d: Graphical representation of attainment levels of various courses during the academic year 2019 – 20

Observation: During 2019-20 academic year all the course attainments are above 2.45 except AC, M-II and M-III.

8.5. Attainment of Program Outcomes for first year courses (20)

8.5.1. Indicate results of evaluation of each relevant PO and/or PSO if applicable (15)

POs Attainment

CAYm2: 2018 – 19

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	English-I	-	-	-	-	-	2.23	2.23	2.23	2.23	2.87	2.39	2.87
C102	Mathematics-1	2.66	2.66	2.66	2.66	-	2.66	2.22	2.22	-	-	2.22	2.66
C103	Mathematics-II	2.58	2.43	2.37	2.37	2.28	-	2.73	2.73	-	-	2.37	2.55
C104	Applied Physics	2.59	2.30	2.59	2.59	-	2.59	2.37	2.37	-	-	-	2.30
C105	Computer Programming	2.31	2.31	2.17	2.17	2.17	-	-	-	2.17	-	-	2.17
C106	Engineering Drawing	2.58	2.42	2.42	2.42	-	2.42	2.90	2.90	2.90	-	2.90	2.90
C107	English Communications Skills Lab-I	-	-	-	-	-	1.99	1.99	1.99	2.99	2.99	1.99	2.99
C108	Applied Physics Lab	2.98	2.48	2.32	2.32	2.32	1.99	1.99	1.99	1.99	1.99	-	1.99
C110	Computer Programming lab	2.98	2.65	2.32	2.32	2.32	-	-	2.32	2.32	-	-	-
C111	English -II	-	-	-	-	-	2.48	2.31	2.48	2.31	2.48	2.48	2.97
C112	Mathematics -III	2.88	2.88	2.88	2.24	-	2.24	2.24	2.24	-	-	2.24	2.88
C113	Applied Chemistry	2.59	2.59	2.16	2.16	-	2.16	2.16	2.16	-	-	-	2.16
C114	OOPS THROUGH C++	2.81	2.34	2.11	2.19	2.19	-	-	-	2.81	-	-	2.81
C115	Environmental Studies	-	-	2.37	-	-	1.89	2.13	2.13	2.13	-	2.21	2.21
C116	Engineering Mechanics	2.67	2.67	2.67	2.67	1.78	2.30	-	-	-	-	-	-
C117	Applied Chemistry Lab	2.65	2.32	-	2.48	2.48	-	1.99	-	1.99	1.99	-	1.99
C118	English Communications Skills Lab-II	-	-	-	-	-	1.99	1.99	1.99	2.99	2.99	1.99	2.99
C119	OOPS THROUGH C++ LAB	2.99	2.66	2.33	2.33	2.33	-	-	2.33	2.33	-	-	-

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	**2.71**	**2.52**	**2.41**	**2.38**	**2.23**	**2.24**	**2.25**	**2.29**	**2.43**	**2.55**	**2.31**	**2.56**
CO Attainment	**2.71**	**2.52**	**2.41**	**2.38**	**2.23**	**2.24**	**2.25**	**2.29**	**2.43**	**2.55**	**2.31**	**2.56**

PSOs Attainment:

Course Code		PSO1	PSO2
C101	English-I	1.91	0.00
C102	Mathematics-1	2.22	0.00
C103	Mathematics-II	1.67	0.00
C104	Applied Physics	2.01	0.00
C105	Computer Programming	2.31	2.31
C106	Engineering Drawing	1.93	0.00
C107	English Communications Skills Lab-I	1.99	0.00
C108	Applied Physics Lab	1.99	0.00
C110	Computer Programming lab	2.32	2.32
C111	English -II	1.98	0.00
C112	Mathematics -III	1.92	0.00
C113	Applied Chemistry	1.73	0.00
C114	OOPS THROUGH C++	2.03	2.50
C115	Environmental Studies	0.00	0.00
C116	Engineering Mechanics	1.78	0.00
C117	Applied Chemistry Lab	1.99	0.00
C118	English Communications Skills Lab-II	1.99	0.00
C119	OOPS THROUGH C++ LAB	2.33	2.33

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	2.01	2.36
CO Attainment	2.01	2.36

CAYm1: 2019 – 20

Course Code	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	English	-	-	-	-	-	2.22	2.22	2.22	2.22	2.78	2.22	2.78
C102	Mathematics –I	2.47	2.47	2.47	2.47	-	-	-	-	-	-	-	2.47
C103	Applied Chemistry	2.28	2.28	2.28	2.28	2.28	2.28	-	-	-	-	-	2.28
C104	Fundamentals of Computer Science	2.95	2.95	2.95	2.95	2.95	2.95	-	-	2.95	-	-	2.95
C105	Engineering Drawing	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	-	-	2.93
C106	ECS Lab	-	-	-	-	-	1.99	-	-	1.99	2.99	-	2.99
C107	Applied Chemistry Lab	2.98	2.65	-	2.48	2.98	2.98	-	-	2.65	-	-	2.98
C108	IT workshop	2.98	2.73	2.65	2.65	2.98	-	-	-	-	-	-	-
C110	Mathematics-II	2.39	2.39	2.39	2.39	2.39	-	2.39	-	-	-	2.39	2.39
C111	Mathematics –III	2.40	2.40	2.40	2.40	-	2.40	-	2.40	-	-	2.40	2.40
C112	Applied Physics	2.52	2.52	2.52	2.52	-	2.52	2.52	-	-	2.52	-	2.52
C113	PPSC	2.91	2.91	2.91	2.91	2.91	2.91	-	-	2.91	2.91	2.91	-
C114	Digital Logic Design	2.51	2.51	2.51	2.51	-	2.51	2.51	2.51	2.51	2.51	-	-
C115	Applied Physics Lab	2.98	2.98	2.98	2.98	-	1.99	1.99	1.99	-	-	-	2.98
C116	Communication Skills lab	-	-	-	-	-	2.98	2.98	2.98	1.99	2.98	1.99	2.98
C117	PPSC lab	2.98	2.98	2.98	2.98	2.98	2.98	-	2.49	2.49	2.32	2.49	2.49

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.71	2.67	2.66	2.65	2.80	2.62	2.55	2.55	2.55	2.71	2.44	2.70
CO Attainment	2.71	2.67	2.66	2.65	2.80	2.62	2.55	2.55	2.55	2.71	2.44	2.70

PSOs Attainment:

Course Code		PSO1	PSO2
C101	English	1.85	-
C102	Mathematics –I	2.47	-
C103	Applied Chemistry	2.28	-
C104	Fundamentals of Computer Science	2.95	2.95
C105	Engineering Drawing	2.93	
C106	ECS Lab	2.99	-
C107	Applied Chemistry Lab	2.98	-
C108	IT workshop	2.65	2.65
C110	Mathematics-II	2.39	-
C111	Mathematics –III	2.40	-
C112	Applied Physics	2.52	-
C113	PPSC	2.91	2.91
C114	Digital Logic Design	2.51	-
C115	Applied Physics Lab	2.98	-
C116	Communication Skills lab	2.98	-
C117	PPSC lab	2.98	

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	2.67	2.83
CO Attainment	2.67	2.83

8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (5)

POs Attainment Levels and Action for Improvement- CAYm2 (2018-19)

POs	Target Level	Attainment Level	Observations
PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	2.40	2.71	• Target is achieved. • Attainment can be increased further for course C105 [CP]
Action Taken: 1.Proposed to conduct awareness program on "Importance of C Programming to solve complex engineering problems" 2.One-week foundation course on Pointers, structures and typedef in C105 [CP] is to be conducted.			
PO2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO2	2.40	2.52	• Target is achieved. • Attainment can be increased further for courses C104 [AP], C105 [CP], and C114 [OOPS] •Rising conceptual discomfort in seeing the link among basic science concepts and engineering.
Action Taken: 1.Tutorial classes will be planned with more examples in concepts like inheritance, Polymorphism and abstraction C114. 2. Bridge course and foundation courses to be conducted to plug the gap existing between intermediate course mathematics and engineering Mathematics. 3. Extra classes will be conducted for topics like quantum mechanics and semi conductor physics with more examples. 4. Tutorial classes with more examples are proposed for C105 & C114 to enhance the analyzing ability.			
PO3: Design Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
PO3	2.40	2.41	•Target is not achieved. •Attainment can be increased further for courses C105 [CP], C103 [M-II], C113 [AC], C115 [ES] and C114 [OOPS] •Design aspects are lagging in laboratory experiments.
Action Taken: 1. As this is related to designed part which is absent in the curriculum, exposure to virtual labs is planned. During library hours students are encouraged to utilize online resources for enhancing their design visualization capacities. 2. Animation demonstrations are proposed for C113.			

<table>
<tr><td colspan="4">3. Reasoning based assignments for C105, C103, and C114 are proposed to reinforce the design skills.</td></tr>
<tr><td colspan="4">PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.</td></tr>
<tr><td>PO4</td><td>2.40</td><td>2.40</td><td>• Target is not achieved.
• Attainment can be increased further for courses C105 [CP], C103 [M-II], C112 [M-III], C113 [AC], and C114 [OOPS]
• Insufficient data reading abilities</td></tr>
<tr><td colspan="4">Action Taken:
1. Application oriented problems are to be included in the assignments for C103 [M-II] and C112 to enhance their problem-solving skills.
2. Additional tutorial classes for C105 and C114 to be conducted to solve complex problems.
3. Students are encouraged to analyse and interpret the data related contempary issues C113 [AC]</td></tr>
<tr><td colspan="4">PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.</td></tr>
<tr><td>PO-5</td><td>2.40</td><td>2.23</td><td>• Target is not achieved.
• Attainment can be increased further for courses C105 [CP], C103 [M-II], C114 [OOPS] and C116 [EM]
• Limited awareness about application techniques in dealing with problems of complex engineering data.</td></tr>
<tr><td colspan="4">Action Taken:
1. Video lessons on modeling concepts of derivatives and integrations for C103.
2. Building awareness about modeling and simulation packages through virtual lab visits for C116.
3. Additional tutorial classes with senior faculty to be conducted for C105 and C114 to know more about advancement in programming tools.</td></tr>
<tr><td colspan="4">PO 6: The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.</td></tr>
<tr><td>PO-6</td><td>2.20</td><td>2.24</td><td>• Target is achieved.
• Attainment can be increased further for courses C113 [AC], and C115 [ES]
• Inadequate understanding of the role of engineer.</td></tr>
<tr><td colspan="4">Action Taken:
1. Orientation programme “Role of Engineer in the society” by industry experts in the first two weeks of induction.
2. Encourage students to participate in NSS activities to fill the gap between Engineering education and society.</td></tr>
<tr><td colspan="4">PO 7: Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</td></tr>
<tr><td>PO-7</td><td>2.20</td><td>2.25</td><td>• Target is achieved.
• Attainment can be increased further for courses C113</td></tr>
</table>

			[AC], and C115 [ES] • Improvement is desired in environmental consciousness.
Action Taken: 1. Involving students in yearlong activities such as plantation, eco-friendly practices and campaigns for reducing carbon emissions. 2. Expert lectures are planned to improve consciousness on environment and sustainability issues. 3. Tutorial classes should be conducted with more examples for carbon emission in C113 and C115.			
PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
PO-8	2.20	2.29	• Target is achieved. • Attainment can be increased further for courses C113 [AC], and C115 [ES] • Insufficient understanding of role of ethics in engineering
Action Taken: 1. Organize guest lecture on "Professional Ethics" by motivational speakers. 2. Teachers leading the students by example in matters of sincerity punctuality and commitment to duty.			
PO 9: Individual and Team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
PO-9	2.20	2.43	• Target is achieved. • Attainment can be increased further for courses C105 [CP], and C115 [ES]. • Students need to be more team oriented.
Action Taken: 1. Students are motivated to organize more events through "English Language Club". 2. Students are encouraged to involve in organizing events and competitions on Independence day, women's day and Republic day . 3. Group discussions will be arranged for C105 in developing simple applications using C programming.			
PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
PO-10	2.20	2.55	• Target is achieved. • Improvement is desired in exhibiting effective communication and language skills
Action Taken: 1. Involving students in language club activities 2. Organizing interactive seminars by in-house faculty as well as guests. 3. Organized British Council and Oxford Achievers Programmes for language enhancement.			
PO 11: Project management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			

PO-11	2.20	2.31	• Target is achieved. • Insufficient leadership characteristics
Action Taken: 1. An awareness program is to be conducted on financial and Project management. 2. Involving Class representatives and their classmates in monitoring conduct of class Action. 3. Students are to be motivated to take active role in technical, sports and cultural activities.			
PO 12: Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			
PO-12	2.20	2.56	• Target is achieved. • Attainment can be increased further for course C113 [AC]
Action Taken: 1. Enable students to take up online courses like NPTEL, SWAYAM on recent technologies. 2. Students are encouraged to attend national level competitive exams. 3. Motivate the students to make use of web sources.			

POs Attainment Levels and Action for Improvement- CAYm1 (2019-20)

POs	Target Level	Attainment Level	Observations
PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	2.45	2.71	• Target is achieved. • C 103 (Applied Chemistry), C110 (M II), C 111 (MIII) did not reach the target.
Action : 1. C 111 (M III): Tutorial sessions on Vector Integration 2. C 110 (M II) : Tutorial sessions on easy approaches to solve the non-linear problems using Newton Raphson method 3. C 103: (Applied Chemistry): Tutorial session on different polymer materials to be used various engineering domains			
PO2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO2	2.45	2.67	• Target is achieved. • C 103 (Applied Chemistry), C110 (M II), C 111 (MIII) did not reach the target.
Action: 1. C 111 (M III): Tutorial sessions on Solution of Ordinary Differential Equations by using Laplace transforms. 2. C 110 (M II): Tutorial classes on solving interpolation problems using Lagrange's Interpolation Method 3. C 103 (Applied Chemistry): Tutorial session on novel materials to be used in different industrial fields			

PO3: Design Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO3	2.45	2.66	• Target is achieved. • C 103 (Applied Chemistry), C110 (M II), C 111 (MIII) did not reach the target.

Action:

1. C 111 (M III): Tutorial sessions on Half range Fourier Series
2. C 110 (M II): Tutorial sessions on application of numerical methods to solve first order ordinary differential equations and integrations using Runge-Kutta method and Simpson's rules
3. C 103 (Applied Chemistry) : Presentation on various conventional energy sources and fuel cells

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO4	2.45	2.65	• Target is achieved. • C 103 (Applied Chemistry), C110 (M II), C 111 (MIII) did not reach the target.

Action:

1. C 111 (M III): Tutorial sessions on Convolution theorem
2. C 110 (M II): application of numerical methods to solve first order ordinary differential equations using Runge-Kutta method.
3. C 103 (Applied Chemistry) : Assignments on new generation of analytical instruments

PO 5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO-5	2.45	2.80	• Target is achieved. • C 103 (Applied Chemistry), C110 (M II) did not reach the target.

Action :

1. C 110 (M II) : NPTEL VIDEOs on Solving Non-linear equations using Newton Raphson methods in programming
2. C 103 (Applied Chemistry) : Class room group discussion on available software programmes for chemical analysis

PO 6: The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-6	2.25	2.62	• Target is achieved. • C103 (Applied Chemistry), C106 (ECS Lab), C115 (Applied Physics Lab) did not reach the target.

Action:

1. Lab Sessions on Engineering and Society C 106 (ECS LAB)
2. Presentations on role of Physics in Engineering and Society C 115 (Applied Physics Lab)

<table>
<tr><td colspan="4">PO 7: Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</td></tr>
<tr><td>PO-7</td><td>2.25</td><td>2.55</td><td>• Target is achieved.
• C115 (Applied Physics Lab) did not reach the target.</td></tr>
<tr><td colspan="4">Action: Virtual labs related to green house effect: C115 (Applied Physics Lab)</td></tr>
<tr><td colspan="4">PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</td></tr>
<tr><td>PO-8</td><td>2.25</td><td>2.55</td><td>• Target is achieved.
• C115 (Applied Physics Lab) did not reach the target.</td></tr>
<tr><td colspan="4">Action: Group presentations on Ethical Problem Solving: C115 (Applied Physics Lab)</td></tr>
<tr><td colspan="4">PO 9: Individual and Team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</td></tr>
<tr><td>PO-9</td><td>2.25</td><td>2.55</td><td>• Target is achieved.
• C 106 (ECS Lab), C116 (Communication Skills Lab) not reached the target.</td></tr>
<tr><td colspan="4">Action:
1. Lab sessions on Individual and Team work C 106 (ECS lab) & C116 (Communication Skills Lab)</td></tr>
<tr><td colspan="4">PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.</td></tr>
<tr><td>PO-10</td><td>2.25</td><td>2.71</td><td>• Target is achieved.</td></tr>
<tr><td colspan="4">Action: NO ACTION NEEDED</td></tr>
<tr><td colspan="4">PO 11: Project management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.</td></tr>
<tr><td>PO-11</td><td>2.25</td><td>2.44</td><td>• Target is achieved.
• C 116 (Communication Skills Lab) did not realize the target.</td></tr>
<tr><td colspan="4">Action: Group Activities on Project Management C 116 (Communication Skills Lab)</td></tr>
<tr><td colspan="4">PO 12: Life-long Learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</td></tr>
<tr><td>PO-12</td><td>2.25</td><td>2.70</td><td>• Target is achieved.</td></tr>
<tr><td colspan="4">Action: NO ACTION NEEDED</td></tr>
</table>

PSOs Attainment Levels and Actions for Improvement-CAYm2 (2018-19)

PSOs	Target Level	Attainment Level	Observations
PSO 1: Graduates Exhibit Knowledge of basic sciences, skills in engineering specialization like information security, cloud computing, networking, software engineering and data analytics.			
PSO1	2.4	2.00	• Target is not achieved. • Attainment can be increased further.
Action 1: Basic level guest lectures will be arranged on latest technologies like cloud computing. Action 2: Awareness program is to be arranged on basics of information security.			
PSO 2: Graduates can adapt to evolving technologies for design and development of full stack applications, exploring with optimal programming Skills.			
PSO 2	2.4	2.36	• Target is not achieved. • Attainment can be increased further.
Action 1: Awareness program on stack applications Optimal programming.			

PSOs Attainment Levels and Actions for Improvement-CAYm1 (2019-20)

PSOs	Target Level	Attainment Level	Observations
PSO 1: Graduates Exhibit Knowledge of basic sciences, skills in engineering specialization like information security, cloud computing, networking, software engineering and data analytics.			
PSO1	2.45	2.67	• Target achieved.
Action 1: NO ACTION NEEDED			
PSO 2: Graduates can adapt to evolving technologies for design and development of full stack applications, exploring with optimal programming Skills.			
PSO 2	2.45	2.84	• Target achieved.
Action 1: NO ACTION NEEDED			

Criterion 9	Student Support Systems	50

9.1 Mentoring system to help at individual level (5)

(Type of mentoring: Professional guidance/career advancement/course work specific/laboratory specific/all-round development. Number of faculty mentors: Number of students per mentor: Frequency of meeting:
The institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system)

9.1.1 Student Mentoring System

Vignan's Institute of Engineering for Women Strongly believes that Student Mentoring system plays a vital role in empowering the women student's at individual level. Unless a student is ready to learn, whatever may be the intelligence quotient of the student/efficiency of the teacher; learning cannot takes place accurately. In this context, VIEW has an efficient student mentoring system of allotting 20 students to every faculty to address not only the academic/curricular issues but also other issues like economic issues, teenage problems, emotional problems and psychological issues. Number of faculty mentors at VIEW is 154 for the programs CSE (33), ECE (37), EEE (29), IT (12), ME (16) and BS&H (27) for the A.Y 2021-22.

9.1.2 Objectives of the Student Mentoring System

The objectives of the Mentoring System at 'VIEW' are:

A. To monitor and enhance the student's regularity & discipline
B. To monitor and enhance the student's academic/curricular performance.
C. To counsel the students and provide confidence to improve their quality of life by addressing their issues such as:
    - Economic Issues
    - Teenage Issues
    - Health Issues
    - Emotional Issues
    - Psychological Issues
D. To engage the parents in the continual improvement of their ward's performance.
E. To encourage student's participation in co-curricular & extra-curricular activities with a balanced academic performance.

F. To guide the students towards campus recruitment, higher education, research & entrepreneurship.

9.1.3 Process of mentoring at VIEW

Process of mentoring students at VIEW was developed to **achieve** the **objectives** of the Student Mentoring system in the following attributes:

1. **Regularity & Discipline**
   - Once in a week, every faculty/mentor will informally meet their allotted student's/mentee's for counselling and making a note of their status in the respective Student Mentoring Book.
   - During the counselling, if the student was observed to be performing good they will be appreciated. If the student was observed to be non-attentive/non-performer/irregular, the exact reasons/issues will be identified by the mentor and will be given with enough counselling/support in resolving/addressing the concerned issues.
2. **Academic/Curricular Performance**
   - In the first stage at the beginning of every semester, the faculty/mentor will address the allotted students regarding the details of academics in the semester and evaluation procedure in line with the respective PO's, PEO's, Mission, Vision at program and institute level.
   - The detailed performance evaluation/results for every assessment will be noted down in the respective student mentoring book.
   - If the student/mentee performance is good then she will recommended for Merit Scholarship else she will be guided and tutored to improve her performance.
3. **Other Issues to increase confidence of Student/Mentee to improve their quality of life**
   - Economic Issues: During the counselling process, if any student/mentee was observed to be suffering financial crisis impacting their performance will be recommended for various opportunities such as MEAN Scholarships.
   - Teenage Issues: During the counselling process, if any student/mentee was observed to be having issues like adolescence, including social media, body image, substance use and sleep will be counselled accordingly in resolving issues at mentor level and

even if the issues still persists the student/mentee will be directed to grievance and redressal cell for further counselling through Program Coordinator.

- Health Issues: During the counselling process, if any student/mentee was observed to be having any health problem disturbing their performance will be inspected with Health Club with concerned parent consent. Where if the issue deserves a doctor's consultation, the primary consultation will be borne by the institution and further recommendations will be handed over to the parent.
- Emotional Issues: During the counselling process, if any student/mentee was observed to be having emotional issues chronic discipline problems, is truant often, temper tantrums, lack of empathy/compassion, bullying others, causing damage to others properties, having conflicts with parents and authority figures will be counselled accordingly. Even if the issue continues to persist, student/mentee will taken for further counselling with Program Coordinator.
- Psychological Issues: During the counselling process, if any student/mentee was observed to be suffering from psychological issues like depression, stress, anxiety, eating disorders, self injury, bipolar disorder and psychotic will be counselled for the resolution. Even if the issues continue to persist the student/mentee will be recommended to a psychologist consultation through program coordinator and parents.

4. **Engaging Parents for continual improvement:** The attendance, performance report and the counselling remarks will be constantly shared with parents daily, monthly and whenever it is necessary. A daily SMS for regularity, monthly attendance report, performance and counselling whenever it is necessary will be shared with the parents.
5. **Co-curricular & Extra-curricular Activities:** During the counselling process, a student/mentee observed to be keen or excelling in any co-curricular or extra-curricular will be given proper guidance towards a balanced learning to maintain better performance in academics and the concerned activity as well. Such student/mentee will be forwarded to the respective clubs for her participation and further guidance in national & international level.
6. **Campus recruitment, higher education, research & entrepreneurship:** During the counselling process, the faculty/mentor will understand the goal of the students regarding her career and guide her towards achieving her goals by recommending her active participation towards Trainings, Seminars, Conferences, Workshops, Publications,

Projects, etc., At every stage, the student/mentee will be monitored and report will be maintained cumulatively to motivate them for a better career opportunity.

9.1.4. Efficacy of the Mentoring system

Students will be able to:

- Improve their attendance percentage leading to low detention rates.
- Students who perform badly in initials tests can improve due to the assignments given, question paper solving and effective guidance.
- Register better academic performance.
- Lead a quality learning life with confidence.
- Succeed in Campus Placements and career building.

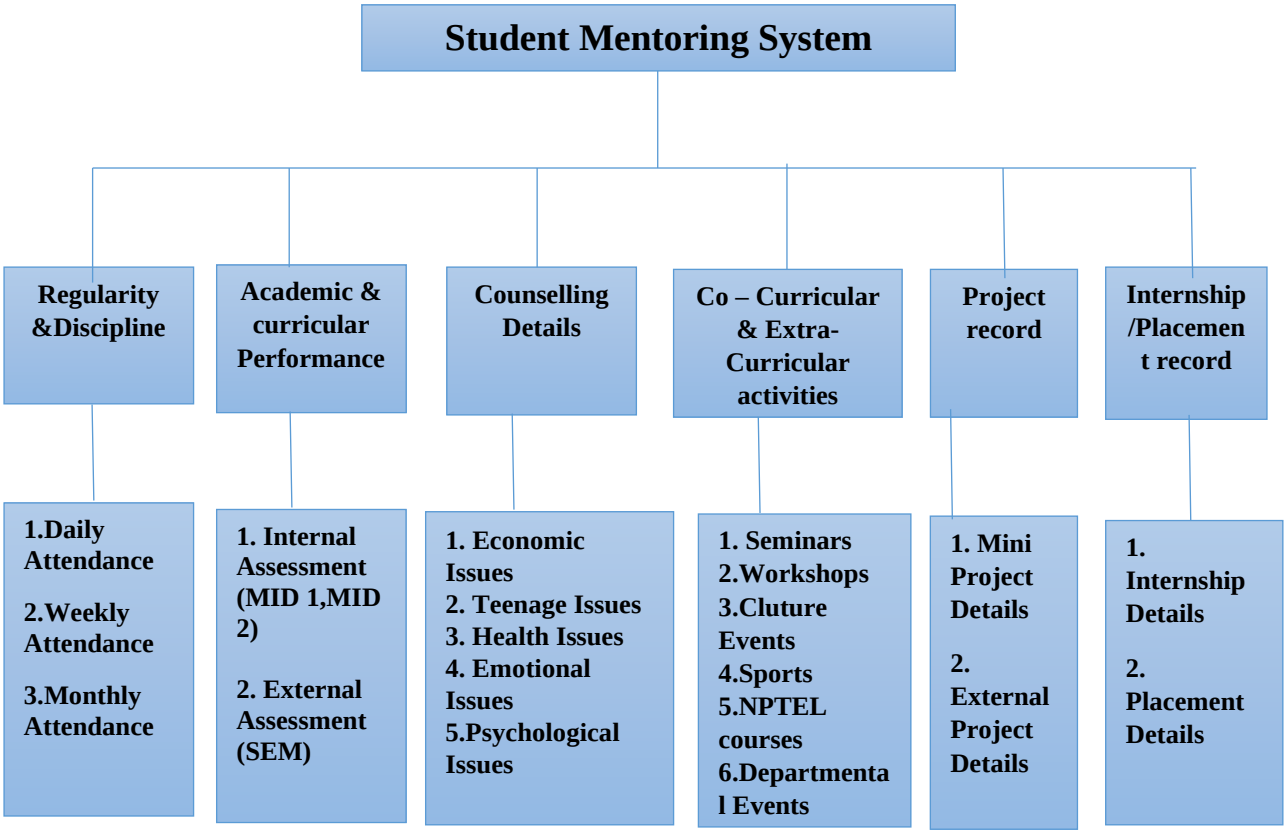


Figure 9.1.1: Illustration of student mentoring system

Impact of counselling:

At the institute students are constantly monitored through regular interaction and mentoring process. In the event of any special issues arising out of economic, academic, health and psychological problems, the mentors will try to rectify the situation by providing relevant support. Few of special issues presented in Table 9.1.1.

Table 9.1.1: Impact through counselling on special issues

S. No	Name of student	Nature of Problem	Status of student (Issue)	Counseling or Support given	Efficacy
1	15NM1A0218 G.NagaPuspa	Academic/ Curricular Performance	Backlogs problem	Remedial and tutorial classes are held to prepare the student for supplementary exams.	Cleared all the active backlogs
2	16NM1A05G7 M.Keerthi	Regularity &Discipline	Irregularity problem	Motivated to attend regularly by explaining the value of education.	Regularity Improved
3	15NM1A1205 A. Lalithasridiya	Psychological Issues	Depression problem	Motivated the student by showing the motivational and spiritual videos. Constantly monitored her progress.	Student participated and interacted actively.
4	17NM1A0562 JobaKumari Preethi	Economic Issues	Financial problem	Motivated the student to study well inorder to get Means and Merit scholarship provided by the institute.	Student received mean scholarship provided by the institute.
5	16NM1A0275 R.JHANSI	Teenage Issues	Love failure	Guided the student to choose the right path and made the student realize the importance of parents.	Student chose the correct path and focused on studies.

6	16NM1A1228 K.Bhargavi	Academic/ Curricular Performance	Dropping the college due to unable to understand the concepts	Suggested easy ways to understand the concepts through online videos and also provided study materials to prepare for the exams. Student gradually gathered confidence to continue the studies.	The student continued in the college and cleared all the subjects.
7	16NM1A05G8 P. Tanmay	Health Issues	Irregularity problem due to health issues	Student was provided medical assistance and student recovered slowly from the illness.	Student started attending the classes regularly.
8	17NM1A0593 L.Trisha	Psychological Issues	Behaviour problem	Student was made to understand the importance of behaviour and ethics. Motivational videos were shown.	Student changed her attitude and interacted with classmates nicely.
9	17NM1A0403 A. Kusuma	Psychological Issues	Depression problem	As she is under constant stress and anxiety out of fear of the subjects she has been counselled by HoD. Mentor is asked to be in regular touch with her. Motivate her suitably by asking one of the lady faculty members to clarify her doubts and about exam pattern.	Student slowly gained confidence over period of time and concentrated on studies.
10	17NM1A1219 G. Sagarika	Psychological Issues	Depression problem	Mentor identified the reason behind student's depression and explained to her about the importance of studies and motivated her through inspiring and motivational videos	Student has overcome her depression; changed her attitude and concentrated on the studies and

				to overcome the depression.	secured good marks.
11	17NM1A0284 T. Kasu Vijaya Vidya Sreevalli	Health Issue	Health problem (Migraine)	Identified the problem and institution has provided medical assistance to the student.	Student recovered from her illness and concentrated on her studies and secured good result.
12	18NM1A0415 B.Roshini	Health Issue	Health Problem (Constant Fever)	Institute provided the medical assistance and advised the student to consult specialist doctor.	Student recovered from health problem and concentrated on studies

9.1.5. Impact through counselling on academic performance

The academic/curricular performance of the Student's/Mentee's was good up to their First academic year. Later in the second year their academic performance was fall down due to not able to clarify their doubts in time with inferiority complex. In order to improve their academic performance, proper mentoring and guidance was provided with the help of student mentoring system by respective mentor. So that, it was observed student's/mentee's performance was improved in the further academic years. The impact through counselling on academic performance of recent batches shown in Figure 9.1.2 to 9.1.6.

Impact of mentoring on Academic Performance

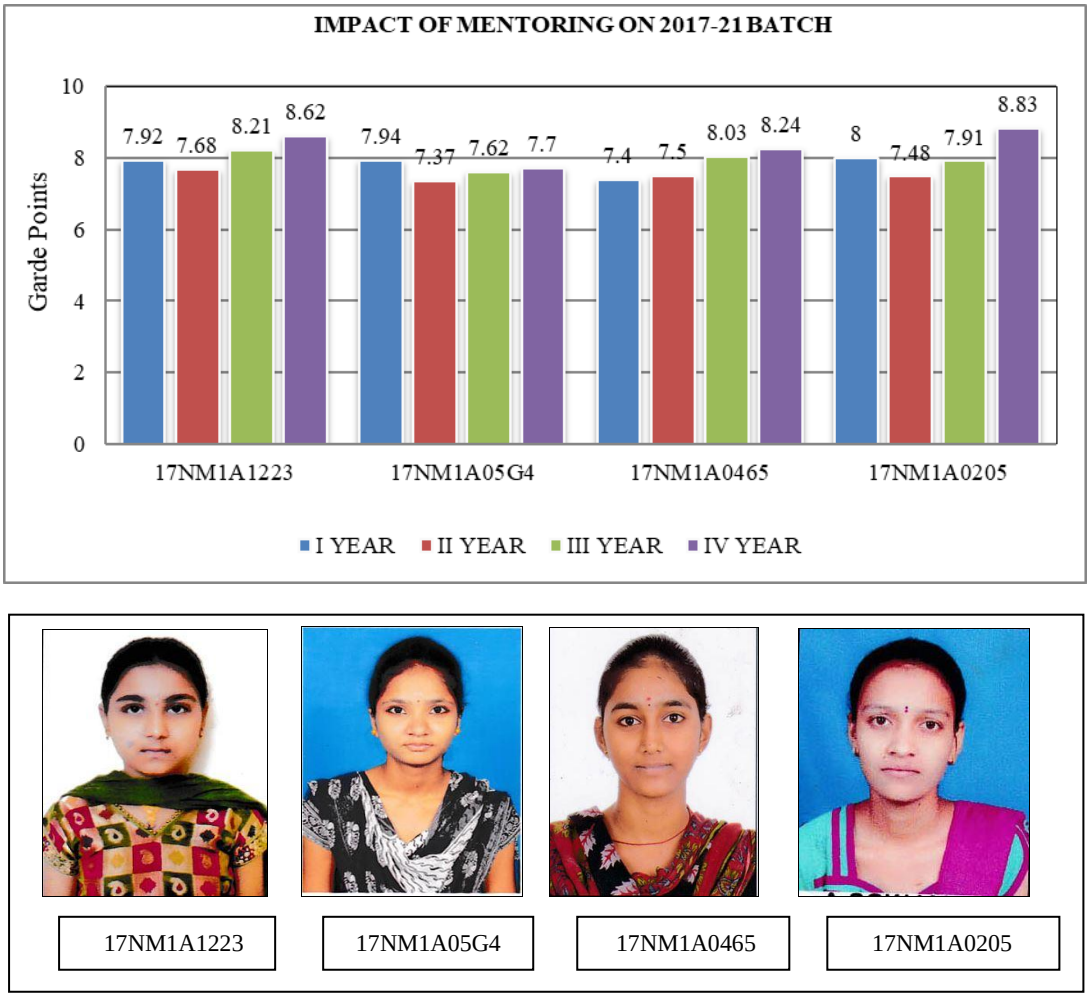


Figure 9.1.2: Impact of mentoring on academic performance of 2017-21 batch

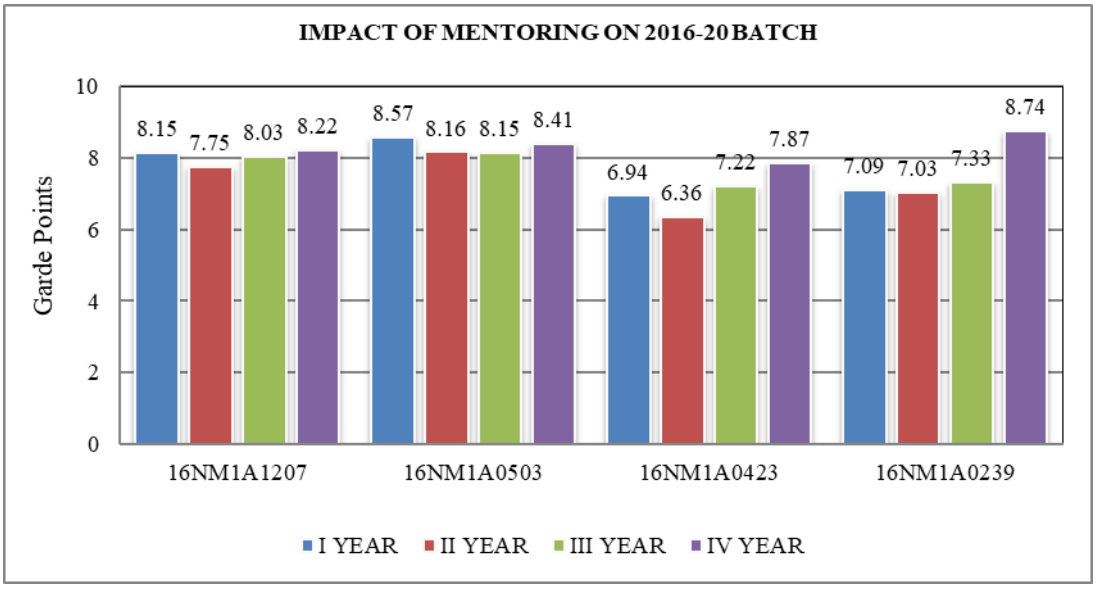


Figure 9.1.3: Impact of mentoring on academic performance of 2016-20 batch

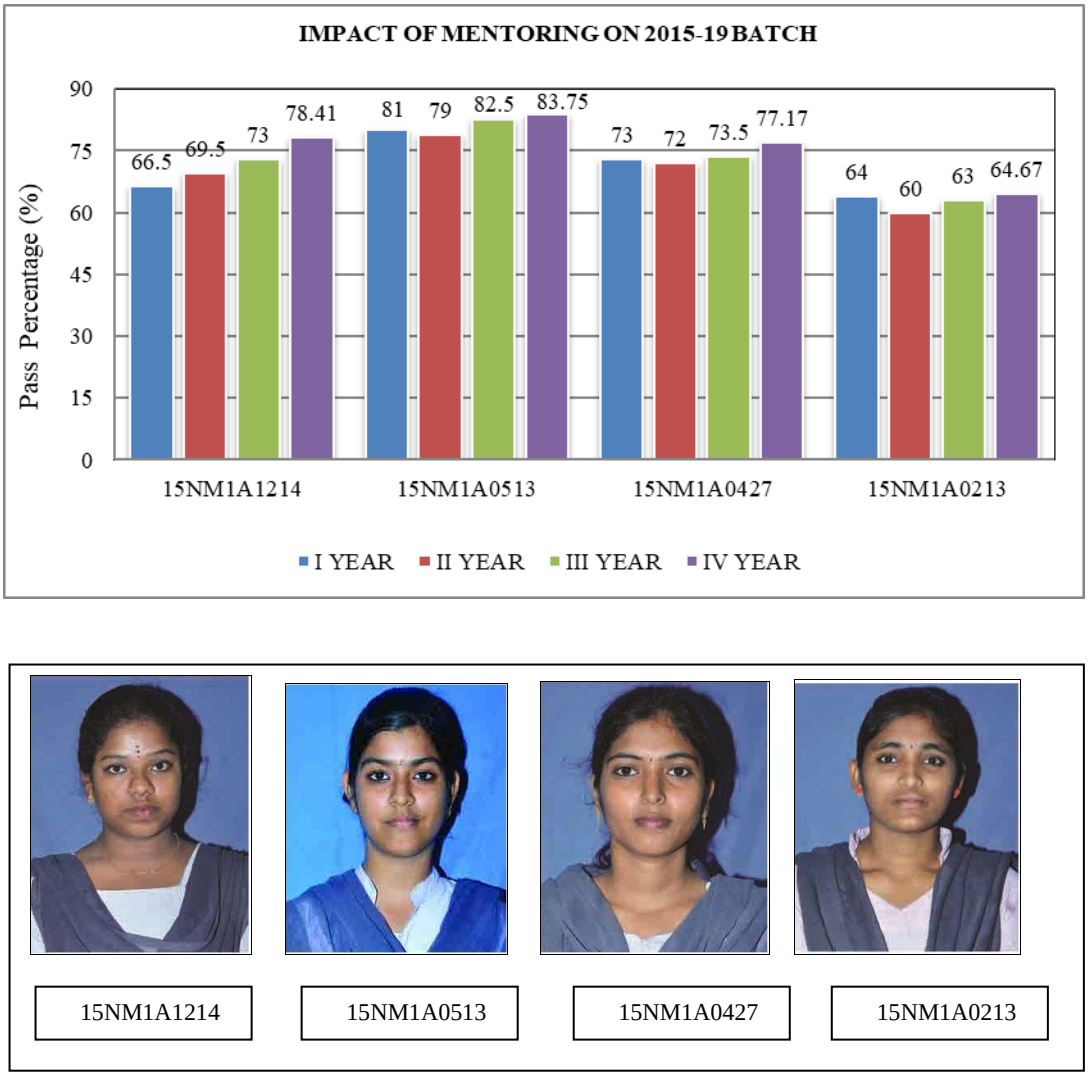


Figure 9.1.4: Impact of mentoring on academic performance of 2015-19 batch

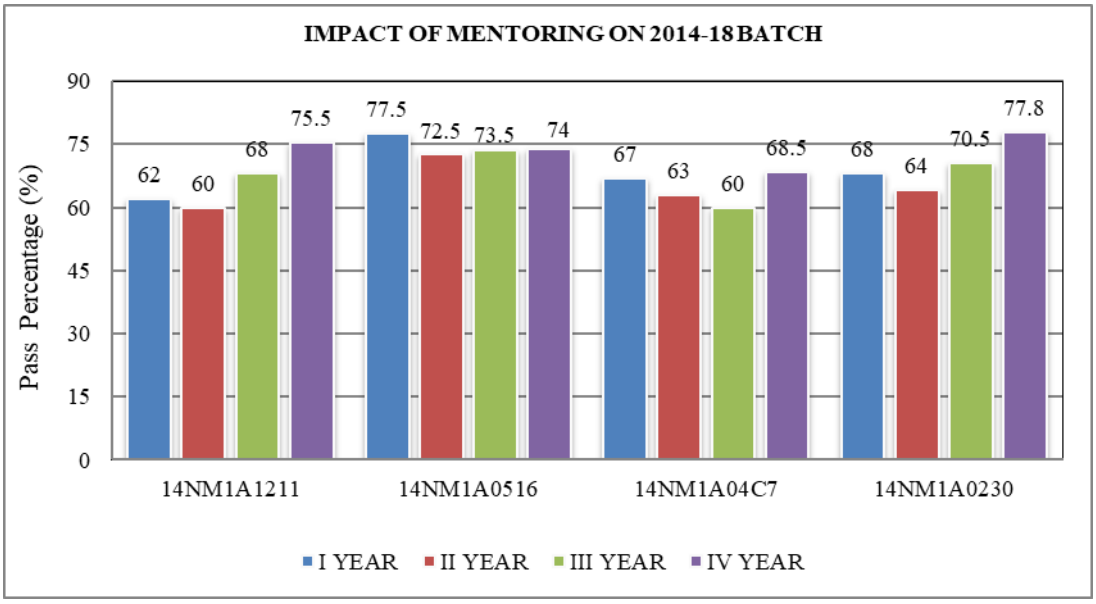


Figure 9.1.5: Impact of mentoring on academic performance of 2014-18 batch

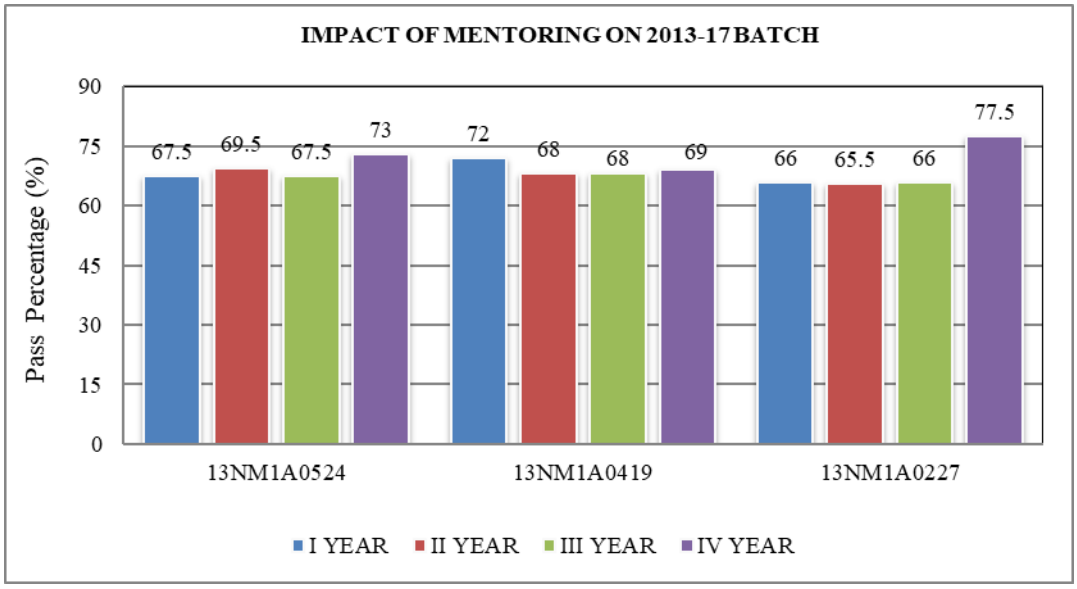


Figure 9.1.6: Impact of mentoring on academic performance of 2013-17 batch

The institute initiated merit scholarship to encourage and appreciate the students/mentees academic performance. The merit scholarship is recommended to students/mentees who secured highest aggregates in their academic years at institute rank wise and departmental rank wise. Details of merit scholarships in departmentwise shown in Table 9.1.2.

Table 9.1.2. Number of selected students to Merit Scholarship

S. No	Academic year	Number of Selected students to Merit Scholarship			
		CSE	ECE	EEE	IT
1	2017-18	4	6	5	4
2	2018-19	6	9	5	4
3	2019-20	Due to Covid/Lockdown conditions Merit Scholarship not yet given.			
4	2020-21	Due to Covid/Lockdown conditions Merit Scholarship not yet given.			

AICTE sanctions Pragati & Saksham scholarships to the eligible degree and diploma students. For the A.Y 2019-20, 31 students of the institute got Pragati & Saksham scholarship based on their eligibility and merit. Details of Pragati & Saksham scholarship in department wise shown in Table 9.1.3.

Table 9.1.3. Number of selected students to Pragati & Saksham scholarship scheme

S. No	Academic year	Number of Selected students to Pragati scholarship scheme			
		CSE	ECE	EEE	IT
1	2019-20	21	8	1	1
2	2020-21	Not yet applied for A.Y 2020-21.			

9.1.6. Impact through counselling on Economic Issues

The faculty/mentor not only observes performance of the student/mentee in academic perspective but also observes their financial background and it's impact on their academics. So, the faculty/Mentor suggests such an identified students for various scholarships and the college initiated mean scholarships. Details of means scholarships in department wise shown in Table 9.1.4.

Table 9.1.4. Number of selected students to Means Scholarship

S. No	Academic year	Number of Selected students to Means Scholarship			
		CSE	ECE	EEE	IT
1	2017-18	14	25	17	0
2	2018-19	15	32	20	8
3	2019-20	Due to Covid/Lockdown conditions Means Scholarship not yet given.			
4	2020-21	Due to Covid/Lockdown conditions Means Scholarship not yet given.			

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE, New Delhi & Affiliated to JNTUK)
Kapujaggarajupeta, VSEZ (Post) Visakhapatnam – 530 049
Phone: 9133300357, 8886066339 Email:viewprincipal@gmail.com

STUDENT DETAILS: -

Student Name :

Date of birth : **Photo**

Year of Admission :

Registered no :

Branch :

Section :

Father/ Guardian :

Mother :

Student mobile no :

Parent mobile no :

Occupation :

E mail Id :

Permanent address :

Present address : Hosteller/Day Scholar Availing Bus Facility: Yes/No

Education Details

S.No	Education	Board	School	CGPA/%
1	X			
2	XII/Inter/			
3	Diploma			

Admission Details

Quota : Convenor/Mgmt **EAMCET/ECET Rank :**

Category : SC/ST/BC/OC **Sub Category :**

ATTENDANCE DETAILS

I B.Tech I Semester

Date of commencement of Semester:

S. No	As on	Conducted hours (Cumulative)	Attended hours (Cumulative)	Attendance (%)	Remarks
1					
2					
3					
4					
5					
6					
7					

ACADEMIC PERFORMANCE

S. No	Subject	Mid – 1	Mid – 2	Internal	End exam	Month/year of passing
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
CGPA						
No. of Backlogs in Current Semester:						
Total No. of Active Backlogs:						

COUNSELLING / MENTORING REPORT

Name of the Mentor:

Date	Mentor Remarks	Student Signature	Mentor Sign

Special Issues

Economic Issues:_____

Issue: _____ Suggestion: _____ Outcome: _____

_____ _____ _____

Teenage Issues:_____

Issue: _____ Suggestion: _____ Outcome: _____

_____ _____ _____

Health Issues:_____

Issue: _____ Suggestion: _____ Outcome: _____

_____ _____ _____

Emotional Issues:_____

Issue: _____ Suggestion: _____ Outcome: _____

_____ _____ _____

Psychological Issues:_____

Issue: _____ Suggestion: _____ Outcome: _____

_____ _____ _____

Additional Comments: _____

_____

_____

_____

Head of the Department **Principal**

DETAILS OF CO-CURRICULAR / EXTRA CURRICULAR ACTIVITES

Date(s)	**Year/Sem**	**Event Details**	**Participation Details**	**Awards (If Any)**

**Event Details includes Name of the Event, Organized By & In Association with*

Project Record

S.No	Year/Sem	Title	Guide Name	Remarks

Internship/Placement Record

S.No	Year/Sem	Intern/Placement	Organization	Stipend/Pay	Duration

PARENT VISIT SHEET

Date	Name & Relation	Purpose	Contact	Signature

9.2. Feedback analysis and reward /corrective measures taken (10)

(Feedback collected for all courses: YES/NO; specify the feedback collection process; Average percentage of students who participate; Specify the feedback analysis process; Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching & learning and summary of the index values for all courses/teachers; Number of corrective actions taken)

In Vignan's Institute of Engineering for Women, a systematic methodology is used for the feedback on teaching-learning process. The process of feedback collection, analysis and evaluation in our institute is presented in Table 9.2.1.

Table 9.2.1: Feedback collection, analysis and evaluation process

Step-1	Collection of feedback forms for all the subjects from the students based on parameters specified in the questionnaire.
Step-2	Estimation of average for all the parameters and calculation of cumulative otherwise called threshold.
Step-3	After the recommendations of Principal, the threshold value will be finalized. The normal value setup at present is 7
Step-4	If the threshold exceeds 7, it will be considered as good. If it is less, the faculty performance is considered as average or below average.
Step-5	If the faculty receives good performance, he will be rewarded with monitory benefits (additional increment). If he/she receives average or below-average performance, he/she gets counselling and allows them to get correct their performances.

Figure.9.2.1 illustrates the implementation of feedback process for the corrective actions taken against the feedback analysis.

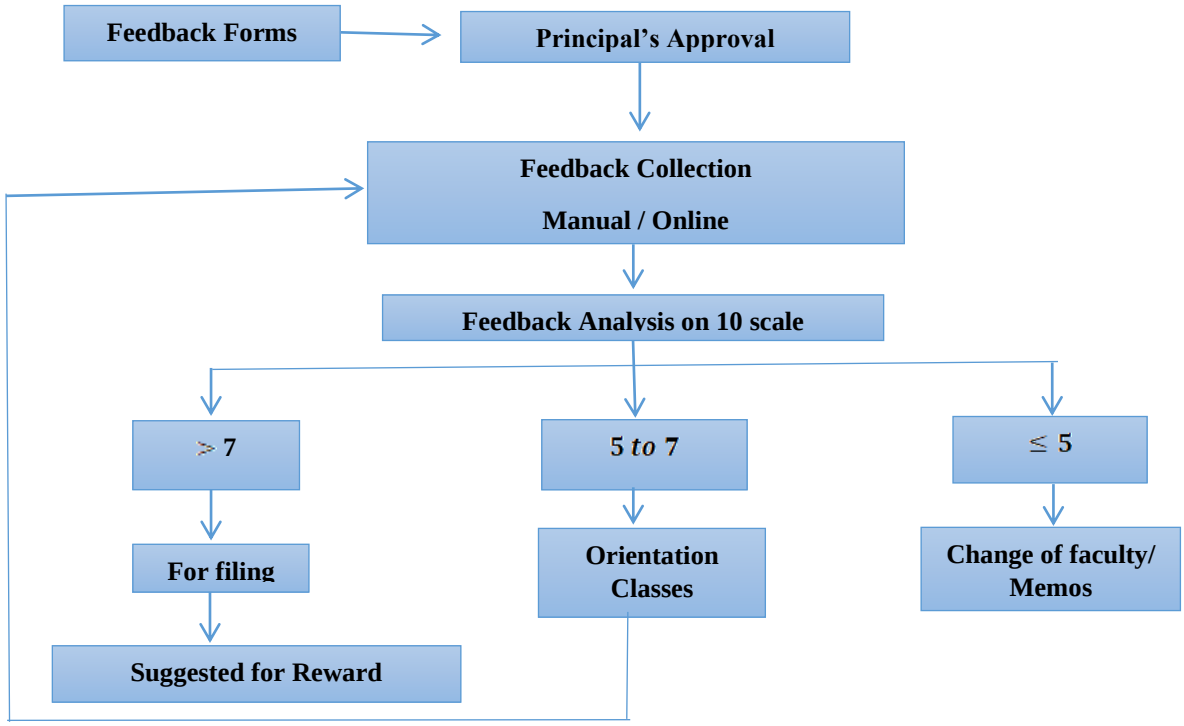


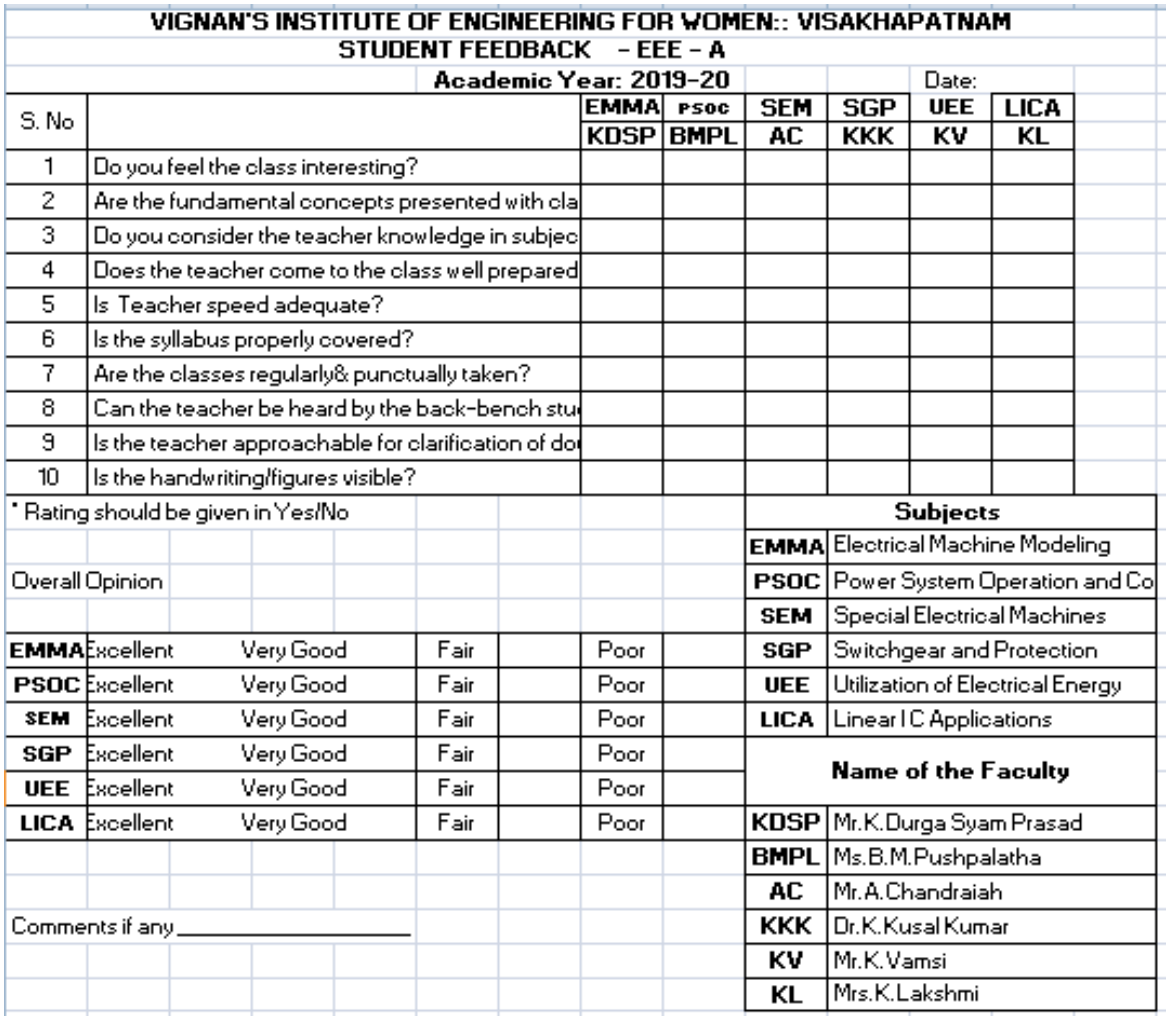
Figure 9.2.1: Illustration of implementation of feedback process

9.2.1. Feedback collection process

Feedback is collected against the format shown in Figure 9.2.2 once in a semester before Mid-I assessment from the students having attendance greater than 75% at the time of collecting feedback.

Percentage of students participating: 90% (Approximately)

Specify the feedback analysis process: The feedback is collected on 10 Parameters on a 10 point scale as shown in Figure 9.2.2.



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN:: VISAKHAPATNAM

STUDENT FEEDBACK – EEE – A

Academic Year: 2019-20 Date:

S. No		EMMA KDSP	PSOC BMPL	SEM AC	SGP KKK	UEE KV	LICA KL
1	Do you feel the class interesting?						
2	Are the fundamental concepts presented with cla						
3	Do you consider the teacher knowledge in subjec						
4	Does the teacher come to the class well prepared						
5	Is Teacher speed adequate?						
6	Is the syllabus properly covered?						
7	Are the classes regularly& punctually taken?						
8	Can the teacher be heard by the back-bench stu						
9	Is the teacher approachable for clarification of do						
10	Is the handwriting/figures visible?						

* Rating should be given in Yes/No

Overall Opinion

EMMA	Excellent	Very Good	Fair		Poor	
PSOC	Excellent	Very Good	Fair		Poor	
SEM	Excellent	Very Good	Fair		Poor	
SGP	Excellent	Very Good	Fair		Poor	
UEE	Excellent	Very Good	Fair		Poor	
LICA	Excellent	Very Good	Fair		Poor	

Comments if any _____

Subjects	
EMMA	Electrical Machine Modeling
PSOC	Power System Operation and Co
SEM	Special Electrical Machines
SGP	Switchgear and Protection
UEE	Utilization of Electrical Energy
LICA	Linear I C Applications
Name of the Faculty	
KDSP	Mr.K.Durga Syam Prasad
BMPL	Ms.B.M.Pushpalatha
AC	Mr.A.Chandraiah
KKK	Dr.K.Kusal Kumar
KV	Mr.K.Vamsi
KL	Mrs.K.Lakshmi

Figure 9.2.2 Illustration of student feedback form

9.2.1 Methodology followed for the analysis of feedback on teaching-learning process

Acquired feedback will be analyzed based on 4 points using the following methodology: Excellent (A), Very good (B), Fair (C) and Poor (D).

The sample analysis of feedback on teaching- learning process followed in our institute is presented Table 9.2.2.

Table 9.2.2: Sample analysis of feedback on teaching-learning process

S.No	Name of the faculty	Designation	subject	Grades				Total strength	A+B+C+D	Over all index (10)
				A	B	C	D			
1	**XXXXX**	**Asst. Prof**	**XXX**	42	12	0	0	**54**	**54**	**9.56**

10% Overall Index Scale: A = 10, B = 8, C = 4, D = 0

Calculation: $\frac{(A\times10)+((B\times8)+(C\times4)}{Total\ strength}$

9.2.2 Effectiveness of Methodology being followed for analysis of feedback

Effectiveness of the methodology being followed was illustrated based on feedback indicator. Feedback indicator is value of average feedbacks employed by the faculty in a department over a batch of students during their entire academics. This feedback indicator was evaluated for the CAY, CAYm1, CAYm2 and CAYm3 for all the programs and illustrated in the Figure 9.2.3.

From the Figure 9.2.3, there is a gradual improvement in the teaching-learning process among all the programs for the last three academic years consistently with the methodology implemented for the analysis of feedback.

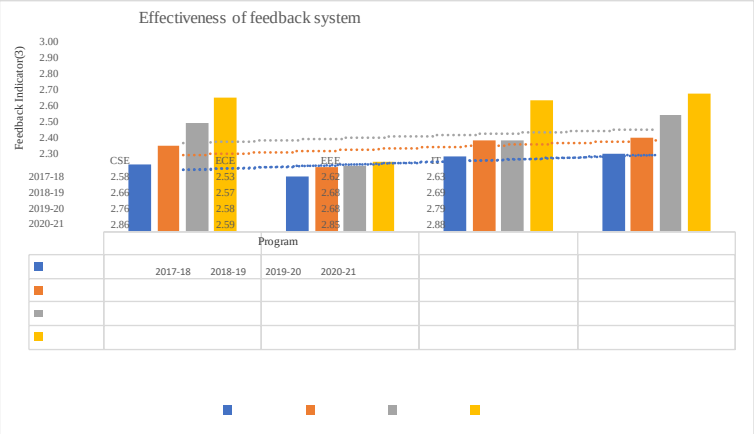


Figure 9.2.3: Effectiveness of feedback system

9.2.3. Corrective actions taken and its efficacy of the Feedback analysis:

In the process of feedback analysis to improve the teacher learning process, a unique process was developed. After the evaluation of feedbacks, faculty who received below 7 will be listed out for further evaluation either through a orientation class or recommended to attend FDPs etc. A record of corrective actions taken was maintained cumulatively for all the three batches. Through principal's office a notification will be issued regarding the orientations to be delivered for the improvement of teaching learning process. A committee will be constituted including Principal along with two program specific internal faculty members. The recommendations of the committee will be constituted and will given to faculty

undergoing orientation will be given a specific time to improve his skills for a better teaching learning process. After the specified time, the faculty will be analysed against the feedback during his delivery in the same class and will be assessed based on the feedback taken again. Further improvements or guidelines will be forwarded to principal office accordingly. List of corrective actions taken were detailed below in Table 9.2.3 for reference.

Table 9.2.3. Record of corrective actions taken based on feedback

Academic Year 2020-21								
S.No	**Program**	**Date**	**Faculty**	**Topic**	**Corrective actions/ Suggestions**	**Feedback(10)**		**Comments**
						Before	**After**	
1	ECE	6.4.2021	Mr.K. Rajendra Prasad	Image Enhancement techniques	Maintain right pace with students understanding capabilities and give more examples	6.29 (IV-I) DIP ECE-B	8	Very Good
2	EEE	5.4.2021	Mr.A.Chandraiah	Switched Reluctance Motor	Maintain small breaks during the class and use simple sentences during explanation. Attend FDP conducted by NITTTR	6.88 (IV-I) SEM EEE-B	7.8	Good
3	CSE	7.4.2021	Ms.Afsheen Firdous	Java Scripts	Adopt innovative teaching practices and prepare lecture notes in advance.	5.78 (IV-I) WT CSE-B	7.2	Good

Academic Year 2019-20								
S. No	**Program**	**Date**	**Faculty**	**Topic**	**Corrective Actions**	**Feedback(10)**		**Comments**
						Before	**After**	
1	ECE	4.11.2019	Mr.B.Sashi Kanth	TCP/IP Protocol	Show them network configuration used in our campus and expalin each and every hardware to establish the network.	6.81 (IV-I) CN ECE-A	8	Very Good
2	CSE	4.03.2020	Ms.B.Haritha Lakshmi	Polymorphism	Try to improve OOPs concepts by refering different text books. Focus more on LE students	5.8 (III-II) OOPS ECE-A	8	Very Good

Academic Year 2018-19								
S.No	**Program**	**Date**	**Faculty**	**Topic**	**Corrective Actions**	**Feedback(10)**		**Comments**
						Before	**After**	
1	CSE	16.10.2018	Ms.Rita Roy	Two Dimensional Geometric	Prepare well and imrpove the fundamental concepts. Prepare the lecture notes and get approved by the HoD.	6.9 (II-I) CG CSE-C	7.3	Good
2	CSE	16.10.2018	Mrs.D.Kamal Kumari	Micro Operations	Technical Knowledge is poor. Prepared lecture notes weli in advance. Be serious in the class.	6.3 (IV-I) CAO ECE-C	7.5	Good
Academic Year 2017-18								

S.No	Program	Date	Faculty	Topic	Corrective Actions	Feedback(10)		Comments
						Before	After	
1	EEE	11.09.2017	Mr.K.Vamsi	Tie line power control	Recommended for orientation class. Prepare lecture notes and get approval by HoD.	6.65 (IV-I) PSOC EEE	7.6	Good
2	EEE	11.09.2017	Mr.B.Rajesh	Insulators	Review PS-I fundamental concepts. Advised to attend NITTR FDP.	6.6 (III-I) PS-II EEE-B	7.1	Good
3	ECE	08.09.2017	Mr.B.Srinivasa Rao	Laplace transforms	Explain the concepts with real time examples.	6.87 (II-I) SS ECE-A	7.8	Good
4	CSE	06.03.2018	Mrs.D.Kamal Kumari	Describing Syntex, context programmers	Acquaint with the framework of all programming languages. Suggested to attend FDP	6.59 (II-II) PPL CSE-A	7.8	Good

9.3. Feedback on facilities (5)

(Assessment is based on student feedback collection, analysis and corrective action taken)

9.3.1 Feedback collection process

Feedback on facilities is collected every year through IQAC from the following means:

a. Student Feedback Form
b. Parent Feedback Form
c. Suggestion box
d. JNTUK FFC recommendations on facilities

Institute centrally takes the feedback on facilities once in every year through student feedback form and parents feedback form.A suggestion box is placed in the department to get the opinion on the functioning, maintenance of the facilities.The corrective actions were taken wherever necessary based on the above feedbacks and FFC members recommendations.The details of the approval letters and the summary of meetings/discussions are maintained.

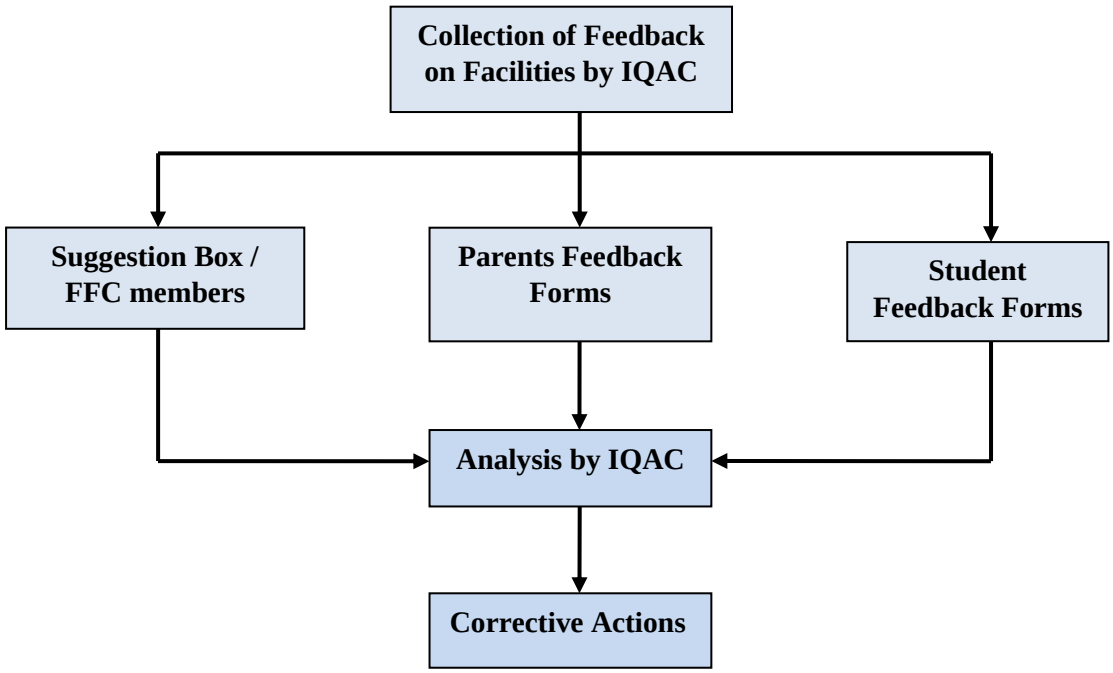


Figure 9.3.1: Illustration of implementation process of feedback on facilities

9.3.2 Analysis of feedback on facilities

Assessment is based on student feedback collection, analysis and corrective action taken.Overall rating on the facilities available in the department/institution in parameter wise given in Table 9.3.1 and 9.3.2. The feedback collected will be cumulatively taken on a scale of 5.

Table 9.3.1. Student feedback rating on parameters

S.No	Parameters	Rating (5 Point scale)

		2017-18	2018-19	2019-20	2020-21
1	Classroom ambience	4	3.8	4.2	4.4
2	Lab & Computing facilities	3.7	4	4.2	4.5
3	Hygiene in canteen	3.5	4	4.4	4.6
4	Training & Placement cell	4	3.7	4.5	4.6
5	Library facility (E-resources & Digital library)	3.8	4	4.3	4.5
6	Transparency in examination & Evaluation	4.3	4.4	4.6	4.6
7	Functioning of grievance cell	4	4.2	4.4	4.5
8	Hostel & Transport facility	4.2	4	4.3	4.5
9	Sports facilities	3.9	4	4.2	4.2
10	Medical facilities	3.8	4.2	4.4	4.6
11	Means & Merit Scholarship provided by VIGNAN	4.4	4.5	4.8	4.6
12	Overall rating about facilities at VIEW college	4.2	4.1	4.4	4.5
Average		**3.98**	**4.08**	**4.39**	**4.51**

Table 9.3.2: Parent feedback rating on parameters

S.No	Parameter	Rating (5 Point scale)			
		2017-18	2018-19	2019-20	2020-21
1	Teaching & Learning Process	4.2	3.8	4.4	4.6
2	Counseling/Mentoring System	4	4.2	4.5	4.5
3	Campus Recruitment Training & Placements	4.3	4	4.5	4.5
4	Scholarship provided by VIGNAN	4.5	4.5	4.7	4.7
5	Student discipline	4.2	4.2	4.4	4.5
6	Overall Personality development of your ward	4.3	4.4	4.6	4.6
7	Laboratory facilities	4.2	4.2	4.4	4.5
8	Library facility	4.2	4.4	4.5	4.5
9	Sports facilities	3.9	4	4.2	4.4
10	Transport facility	3.8	4.2	4.4	4.5
11	Canteen & Hostel facility	4.4	4.5	4.8	4.8
12	Co curricular & Extra Curricular Activities	4.2	4.1	4.4	4.5
13	Grievance and redressal cell	4.5	4.5	4.5	4.5
14	Medical facilities	4	4.2	4.4	4.6
15	Overall rating of VIEW	4.2	4.3	4.4	4.6
Average		**4.19**	**4.23**	**4.47**	**4.55**

9.3.3 Corrective Actions Taken

As per the key identifications from the parameters in above tables, a recommendations list will be prepared and will be presented in the governing body meetings. As per the guidelines given from the minutes, corrective actions will be taken and for last four academic years were listed below in Table.9.3.3.

Table 9.3.3: List of corrective actions taken against recommendations

S.No	Recommendations	Corrective Actions Taken			
		2017-18	2018-19	2019-20	2020-21
1	Hostel Facilities	Yes	Upgraded	Upgraded	Upgraded
2	Library Facilities	Yes	Upgraded	Upgraded	Upgraded
3	Medical Facilities	Yes	Upgraded	Upgraded	Upgraded
4	Transport Facilities	Yes	Upgraded	Upgraded	Upgraded
5	Fire & Safety	Floor wise	All exposed areas	Upgraded	Upgraded
6	Canteen Facilities like Xerox, stationary, etc arranged in a spacious canteen	Institute Level	Upgraded	Upgraded	Upgraded
7	LCD projectors and computer systems are fixed in every classroom	Limited to program wise	Limited to section wise	Yes	Yes
8	Focusing lights are arranged at the top of the board to clear visibility to the students.	Limited	Yes	Yes	Removed
9	Quality equipment and computing facilities increased in the department.	Yes	Upgraded	Upgraded	Upgraded
10	Active functioning of the grievance cell to look after the issues of students.	Yes	Yes	Yes	Yes
11	Increased the kits for the in-door and out-door games/sports.	Yes	Upgraded	Upgraded	Upgraded
12	Management providing Means & Merit scholarships to encourage the students	Limited	Yes	Yes	Yes
13	Wifi & Internet Facilities	Yes	Upgraded	Upgraded	Upgraded

Figure 9.3.2: Illustration of facilities

Student and parent feedback forms on facilities are shown in Figure 9.3.3 and 9.3.4.

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE & Affiliated to JNT University, Kakinada) Estd. 2008
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530 049, Andhra Pradesh, India
Phone : 9133300357, 8886066339 :: Fax : 0891-2010485
Email : viewvizag@yahoo.com, viewprincipal@gmail.com website : www.vignanview.org

STUDENT'S FEEDBACK ON FACILITIES

Name : **Branch:**

Regd. No: **Admitted Year:**

Please rate the Institute as per the criteria given below. Mark a tick '√' in the appropriate cell:
(Note: Excellent-5; Very Good-4; Good-3; Satisfactory-2; Poor-1)

S.No	Question	Rating				
1	Classroom ambiance	5○	4○	3○	2○	1○
2	Lab & Computing facilities	5○	4○	3○	2○	1○
3	Hygiene in canteen	5○	4○	3○	2○	1○
4	Training & Placement cell	5○	4○	3○	2○	1○
5	Library facility (E-resources & Digital library)	5○	4○	3○	2○	1○
6	Transparency in examination & Evaluation	5○	4○	3○	2○	1○
7	Functioning of grievance cell	5○	4○	3○	2○	1○
8	Hostel & Transport facility	5○	4○	3○	2○	1○
9	Sports facilities	5○	4○	3○	2○	1○
10	Medical facilities	5○	4○	3○	2○	1○
11	Means & Merit Scholarship provided by VIGNAN	5○	4○	3○	2○	1○
12	Overall rating about facilities at VIEW college	5○	4○	3○	2○	1○

Additional Comments: .....

Approved.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Figure 9.3.3: Sample of student feedback form on facilities

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE & Affiliated to JNT University, Kakinada) Estd. 2008
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530 049, Andhra Pradesh, India
Phone : 9133300357, 8886066339 :: Fax : 0891-2010485
Email : viewvizag@yahoo.com, viewprincipal@gmail.com website : www.vignanview.org

PARENTS' SURVEY FORM ON FACILITIES

Name of the Parent: **Name of the student:**

Program: **Regd. No. of the student:**

Please rate the Institute as per the criteria given below. Mark a tick '√' in the appropriate cell:

(Note: Excellent-5; Very Good-4; Good-3; Satisfactory-2; Poor-1)

S.No	Question	Rating				
1	Teaching & Learning Process	5○	4○	3○	2○	1○
2	Counseling/Mentoring System	5○	4○	3○	2○	1○
3	Campus Recruitment Training & Placements	5○	4○	3○	2○	1○
4	Scholarship provided by VIGNAN	5○	4○	3○	2○	1○
5	Student discipline	5○	4○	3○	2○	1○
6	Overall Personality development of your ward	5○	4○	3○	2○	1○
7	Laboratory facilities	5○	4○	3○	2○	1○
8	Library facility	5○	4○	3○	2○	1○
9	Sports facilities	5○	4○	3○	2○	1○
10	Transport facility	5○	4○	3○	2○	1○
11	Canteen & Hostel facility	5○	4○	3○	2○	1○
12	Co curricular & Extra Curricular Activities	5○	4○	3○	2○	1○
13	Grievance and redressal cell	5○	4○	3○	2○	1○
14	Medical facilities	5○	4○	3○	2○	1○
15	Overall rating of VIEW	5○	4○	3○	2○	1○

Please give your valuable suggestions for improvement of the college.

.....

.....

Date: **Signature:**

Approved

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),

Figure 9.3.4: Sample of parent survey form on facilities

9.4: Self-Learning (5)

(The institution needs to specify the facilities, materials and scope for self-learning / learning beyond syllabus, Webinars, Podcast, MOOCs, etc. and evaluate their effectiveness)

9.4. A. Scope for Self-Learning

Self-Learning at Vignan's Institute of Engineering for Women was one of the unique ecosystems with diversified learning for women students. The details of the self-learning facilities for the student's of our institution were illustrated in the Figure 9.4.1 for the last four academic years.

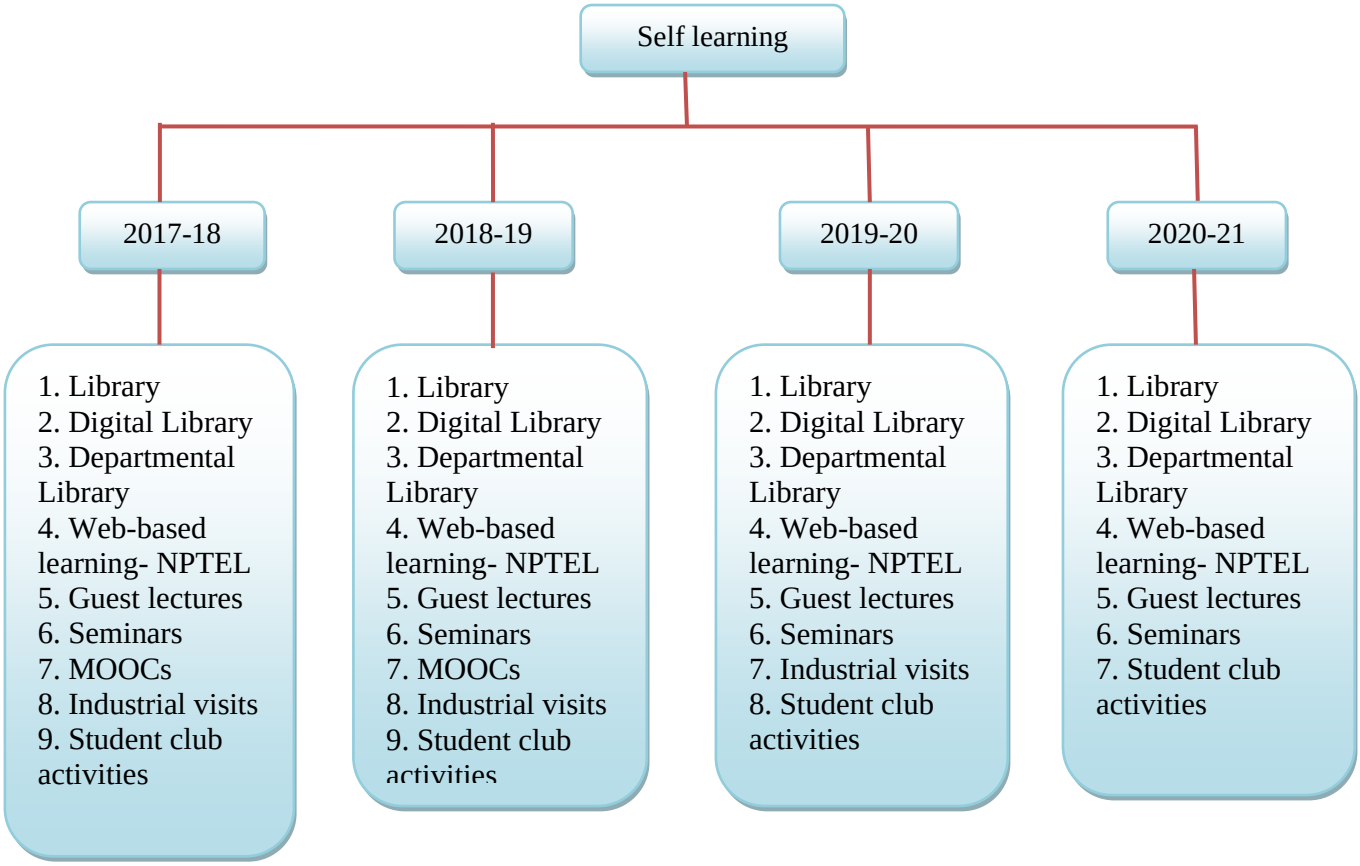


Figure 9.4.1. Illustration of facilities for the scope of self learning

Self-Learning method is an individualized method of learning collecting information, processing it, and retaining it without the need for another individual to teach it.

Table 9.4.1: Details of Self Learning Processes

S.	Self – Learning process	Description

No		
1	Library	Several books provided in central library in department wise.
2	Digital Library	• Availability of NPTEL videos. • Sufficient systems with multimedia facilities. • Institutional membership, Internet facility and Access Provided to NPTEL Video Lecture Content, etc.
3	Departmental Library	Availability of course materials and departmental library books.
4	Web-based learning	Provided video lectures through internet.
5	Professional bodies / other association and club activities	Departments have a Professional association memberships, Departmental associations and student clubs.
6.	Seminars & Workshops	Several departments have organized seminars and workshops
7	Internships	Institute provided an opportunity to do internships for the students.
8	Industrial visits	Several departments have organized Students Industrial visits.
9	Guest lectures	Several departments have organized Guest lectures.
10	MOOCs	Various programs towards MOOCs data have been provided.

9.4. B.1. Detailed list of Self – Learning facilities:

Various self learning facilities available at VIEW were listed below in detail:

a) Central Library

The Vignana Vahini Library has a huge collection of 27,784 books with 5,676 titles on various subjects including technical, humanities, managerial and reference Books covering biographies, dictionaries, yearbooks etc. The library subscribes 55 national and international print journals and 5230 e-journals, and holds over 1251 project reports. The Learning materials, Previous Question Papers, Project Reports of all departments are made available.

- The Library is open for all users from 7.30 am to 5.30 pm. The library hours are extended on the basis of need during examinations.
- Regular class time tables of all branches allot one session contains one hour in a week for library study. Each student have a library card using which that she can lend 3 books for 15 days nearly 30 members utilizes same title of book per year.
- The use of library by students is generally more during examination period.
- During examination period students spends more time in library.
- Digital Library is also available to the students with free internet Access

Table 9.4.2: Detailed list of Vignana Vahini library

S. No	Course	Dept.	No. of Titles	No of Volumes	Effective Utilization			
					2017-18	2018-19	2019-20	2020-21
1	UG	EEE	549	3320	**80682**	**86276**	**78241 (COVID Impact)**	**26649 (COVID Impact)**
2		ECE	637	3601				
3		CSE	651	3850				
4		IT	641	2989				
5		ME	342	2049				
6	PG	MBA	247	1661				
7		ECE	92	226				
8		EEE	59	138				
9		CSE	74	180				
10		ME	36	98				
11	BS&H	BS&H	199	2554				
12	General	Books	140	564				
TOTAL (Hard copies)			3667	21230				
13	E-BOOKS		2009	6554				
14	**TOTAL**		**5676**	**27784**				
15	Others	Journals / Periodicals	55		**Effectively utilized 100% of the sources for developing projects or materials.**			
16		News Papers	34		**100%**			
Improvement of utilization was observed over a period of academic year wise.								

Figure 9.4.2 Vignana Vahini Library

b) Departmental Library

- The departmental library comprises books of all engineering subjects of various publications, GATE books, and competitive examination books that are accessible to all students.

c) Professional bodies

- All departments are associated with professional memberships such as the Institution of Engineers, IEEE, IETE, APSSDC etc.

Table 9.4.3: Effectiveness of Student Professional Bodies

S. No	Name of the Professional Society	Student Memberships			
		2020-21	2019-20	2018-19	2017-18
1	IEEE	15	-	-	-
2	IEI	127	386	585	814
3	APSSDC	667	814	891	814
4	IETE	-	70	52	62
5	Code Chef Student Chapter	5	16	10	-
6	CSEA	580	574	566	542
7	Women Techmakers	30	30	18	12
8	Microsoft Student Partner	30	29	15	11
9	Google Developers Group	35	32	24	17
10	Internshala Student Partner	43	70	53	52
11	DAEEE	87	247	342	279
12	IAENG	118	-	-	-
13	TheIRED	118	-	-	-
14	Internet Society	155	-	-	-
15	SDIWC	110	-	-	-

d) Seminars & workshops

- Every department has organized seminars, workshops, technical events such as Tech Fest to enhance communication skills in students.
- Students give excellent seminars in front of all their classmates about their own interested topics to enhance their presenting and communication skills. These seminar classes help the students for their campus interviews to place them in better position.

e) Internships

- Institute provides an opportunity for the Students of all the departments acquire hands on experience to expose practical learning knowledge from various industries.

Table 9.4.4: Consolidated Sheet of student Internships

S.NO	Branch	Academic Year			
		2017-18	2018-19	2019-20	2020-21
1	CSE	48	54	83	48
2	ECE	69	81	73	2
3	EEE	53	108	150	_
4	IT	8	1	8	14

f) Industrial visits

- Departmental industrial visits have been organized such as ISRO, Machkund Power Plant, etc. to understand the practical implementation of the subject.

Figure 9.4.3. Illustration sample for Industrial Visits (Source: ECE ISRO visit)

Table 9.4.5: Effectiveness of Industrial Visit

S no	Academic Year	Department	No of Industries Visited	Total No of students Attended
1	2019-20	EEE	4	350
		ECE	2	139
		CSE	1	90
		IT	1	40
2	2018-19	EEE	3	249
		ECE	3	277
		CSE	1	130
3	2017-18	EEE	3	243
		CSE	1	120

g) Web-Based Learning and Certification Courses

- Students of all departments were given the opportunity to participate in online classes such as MOOCs, NPTEL etc.
- Department level faculties will encourage the students to undergo web based certification courses like NPTEL, UDEMY, COURSERA, CISCO, etc.
- Students those who secured best ranking in various courses; they are awarded with price money as a token of appreciation based on the R&D policy.

Table 9.4.6: Effective Utilization of Web-Based Learning and Certification Courses

Academic Year	S No	Department	Name of the Certification Course	No of students Completed	Total
2020-21	1	ECE	NPTEL	01	389
	2		Udemy	01	
	3		Coursera	05	
	4		Others	06	
	5	IT	NPTEL	02	
	6		Udemy	45	
	7		Coursera	06	
	8		IBM	08	
	9		Internshala	04	
	10		GUVI	18	
	11	EEE	Udemy	10	
	12		Coursera	66	
	13		Others	05	
	14	CSE	NPTEL	43	
	15		Udemy	40	
	16		Coursera	55	
	17		AWS	20	
	18		CISCO	08	
	19		Others	46	
2019-20	1	ECE	NPTEL	26	339
	2		Udemy	02	
	3		Others	12	
	4	IT	NPTEL	28	
	5		IBM	29	
	6		Hash-Code	08	
	7		Udemy	26	
	8	EEE	NPTEL	02	
	9		Coursera	60	
	10		Others	10	
	11	CSE	NPTEL	61	
	12		Udemy	28	
	13		AWS	03	
	14		Coursera	21	
	15		Others	23	
2018-19	1	ECE	Others	02	357
	2	IT	NPTEL	04	

	3	EEE	Coursera	57	
	4	CSE	NPTEL	47	
	5		Udemy	04	
	6		Coursera	02	
	7		CISCO	218	
	8		UDACITY	20	
	9		Others	03	
2017-18	1	ECE	Udemy	03	**93**
	2		Others	07	
	3	IT	NPTEL	02	
	4		Cisco	03	
	5	EEE	Coursera	42	
	6	CSE	NPTEL	30	
	7		Others	06	

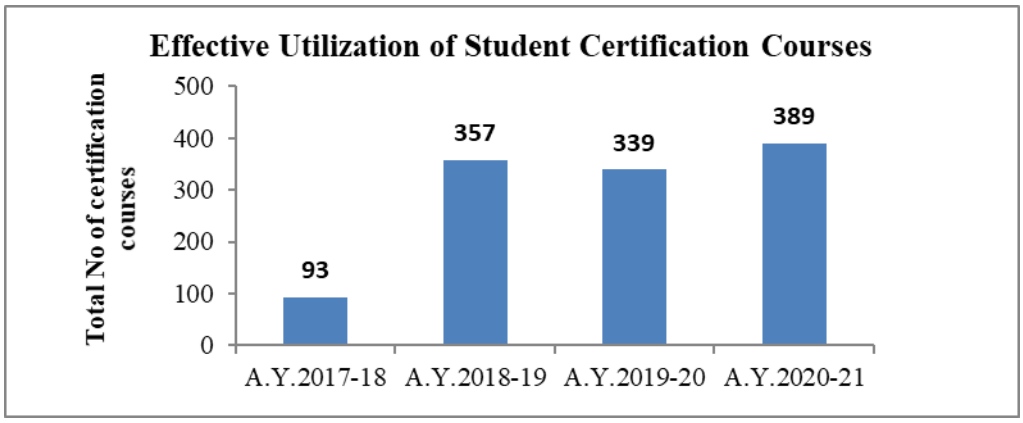


Figure 9.4.4 Illustration of effective utilization of web based learning

Figure 9.4.5: Sample certication courses as effective utilization

- MOOCs online program will be conducted by the University of JNTUK to impart knowledge to the students of respective departments. These MOOCs classes help the students to utilise and get placed in various campus drives.

Table 9.4.7: List of MOOC's web-based program

ACADEMIC YEAR : 2018-19					
S. NO	**BRANCH**	**YEAR & SEM**	**NAME OF THE COURSE**	**EXTERNAL EXPERT**	**INTERNAL FACULTY**
1	CSE/IT	II-I	Statistics Using R Programming	TCS Consultants, Hyderabad	Mr.Ch.V.Bhikshapathi Mrs.S.Kalyani
2	ECE	II-I	Signals And Systems	Dr. K V.Srinivas, IIT Bhubaneswar.	Mr.G.Lakshmana Mrs.T.SandyaKumari
3	MECH	III-I	Metal Cutting Machine Tools	Prof. G. L. Samuel, IIT Madras.	Mr.A.V. Pradeep
ACADEMIC YEAR:2017-18					
S. NO	**BRANCH**	**YEAR &SEM**	**NAME OF THE COURSE**	**EXTERNAL EXPERT**	**INTERNAL FACULTY**
1	CSE/IT	II-II	Java Programming	TCS Consultants, Hyderabad	Mr. I.Raju Mr.J.Hari
2	MECH	II-II	Design of Machine Members-1	Ch. Viswanath, IIT Hyderabad	Mr.A.V. Pradeep
3	ECE	II-II	Analog Communications	K.V.Srinivas , IIT Varanasi	Mrs.T.SandyaKumari
4	EEE	II-II	Electrical Machines - II	Mr. Pradeep Kumar Yamula, IIT Hyderabad	Mr.R.S.Ravi Shankar Mr.A.Chandraiah
5	ECE	III-II	Microwave Engineering	Prof. J.SriHariRao, NITW(Rtd)	Mrs.S.Malathi
6	EEE	II-I	Electrical Machines-I	Mr. Pradeep Kumar Yamula, IIT Hyderabad	Mr.R.S.Ravi Shankar Mr.Ch.Anil Kumar
7	CSE/IT	II-I	Python Programming	RajkumarMulge, TCS Consultant	Mr.B.Venkatesh Mr.Ramasuri Appala Naidu
8	CSE	IV-I	Hadoop& Big Data	KiranKopparapu, Chicago State University	Mrs.B.Madhavi
9	MECH	IV-I	Finite Elements Method	ViswanathCh, IIT Hyderabad	Mr.A.V. Pradeep

9.4. B.2. Material for Learning Beyond syllabus

i. Digital Library

- The institution provides facilities like a digital library, which can access E-journals of J-Gate Science and Technology, N-Digital has E-Journals & E-Books, DELNET has E-Books & E-journals in Engineering & Technology, IEEE provides E-journals and magazines. We can provide 34 newspapers so students can utilize these sources during the leisure hours.
- The Digital Library has 20 computers and several E-Resources of e-journals, e-books; video lectures (like NPTEL) are made available in the Digital Library for effective teaching learning process.

Table 9.4.8: Availability of Digital Library Contents

Availability of Digital Library Contents: Yes Following digital contents are made available		
Content	**Accessibility**	
NPTEL Video Lecture	Access Provided to NPTEL Video Lecture Content	YES, through local Server
National Digital Library of India (NDL) IIT Kharagpur	Membership to NDL Digital Library of India	YES
Availability over Intranet /Internet	YES	
No. of users per day:	25 - 35 Per Day	

Table 9.4.9: Effective Utilization of Digital Library

Effective Utilization			
2017-18	**2018-19**	**2019-20**	**2020-21**
6869	5774	4134 (COVID IMPACT)	1837 (COVID IMPACT)

ii. Coaching's for competitive exams

- Institution provides coaching for GATE, aptitude, reasoning and workable training were given which makes the students attain effectively for their carrier growth.
- Mock interviews, aptitude test and group discussions are conducted periodically to evaluate performance of the students.
- Worksheets have been design on each topic and circulated to the student's to improve their practice exercise.

iii. **Associations**

- Institution level fests are organised in the campus where so many events are conducted like paper presentations, poster presentations, rangoli, project expos events are conducted to evaluate their presentation and communication skills.
- In order to provide more exposure to the students towards recent trends emerging technologies and to facilitate better interaction all the departments formed an associations in every year. The main aim of associations is to make sure the students become highly competitive and to acknowledge the inherent talents of the students in both technical and cultural fields.

Table 9.4.10: Type of Events Conducted Under TECHRITZ FEST

TECHRITZ FEST			
Event name	Technical quiz	AI workshop	Model expo
Demonstration			
Outcome	Students who actively participated in this fest have gained Technical skills in product development and won many prizes in different Events.		

iv. Research Publications

Faculty who have published various research publications in respective domains are provided in central library for reference purpose to the students for imparting knowledge to publish papers in their interested domain.

Table 9.4.11: Availability of Faculty Research Publication

S No	**Type of Publication**	**Academic Year**			
		2017-18	**2018-19**	**2019-20**	**2020-21**
1	SCI	2	3	9	5
2	SCOPUS	25	11	66	32
3	UGC	17	25	76	86
TOTAL		**44**	**39**	**151**	**123**

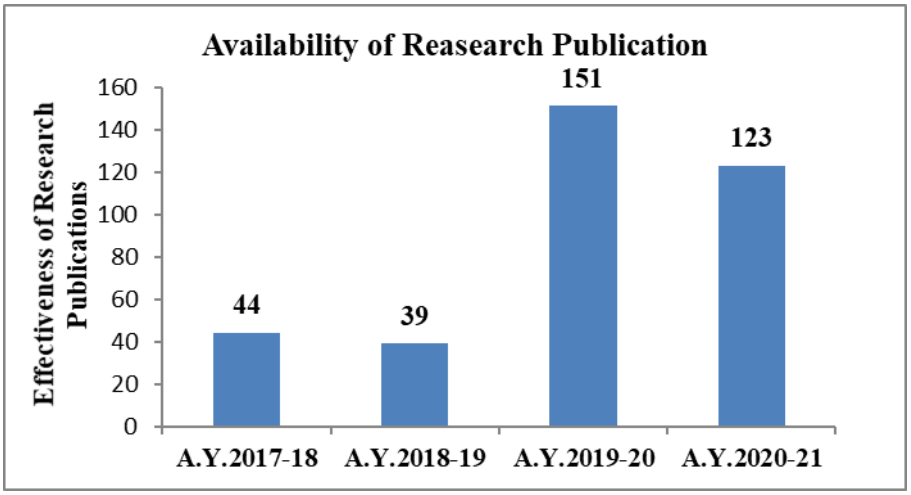


Figure 9.4.6 Illustration of availability of faculty research publications

Table 9.4.12: Effectiveness of Student Research Publication

S No	Type of Publication	Academic Year			
		2017-18	2018-19	2019-20	2020-21
1	SCI	1	-	-	-
2	SCOPUS	3	1	5	-
3	UGC	-	1	65	71
4	CONFERECES	1	2	-	-
TOTAL		**5**	**4**	**70**	**71**

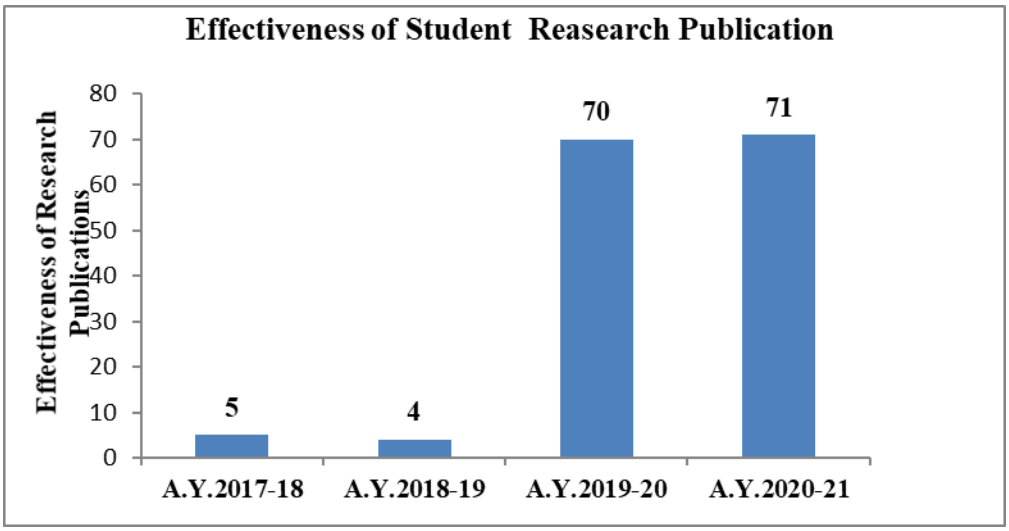


Figure 9.4.7 Illustration of effectiveness of student research publications

v. Student clubs

- Institution establishes so many student clubs in every year under those clubs many activities were performed in order to exhibit their skills like singing, dancing, mehandi etc. Every year blood donation camp was organised under health club.

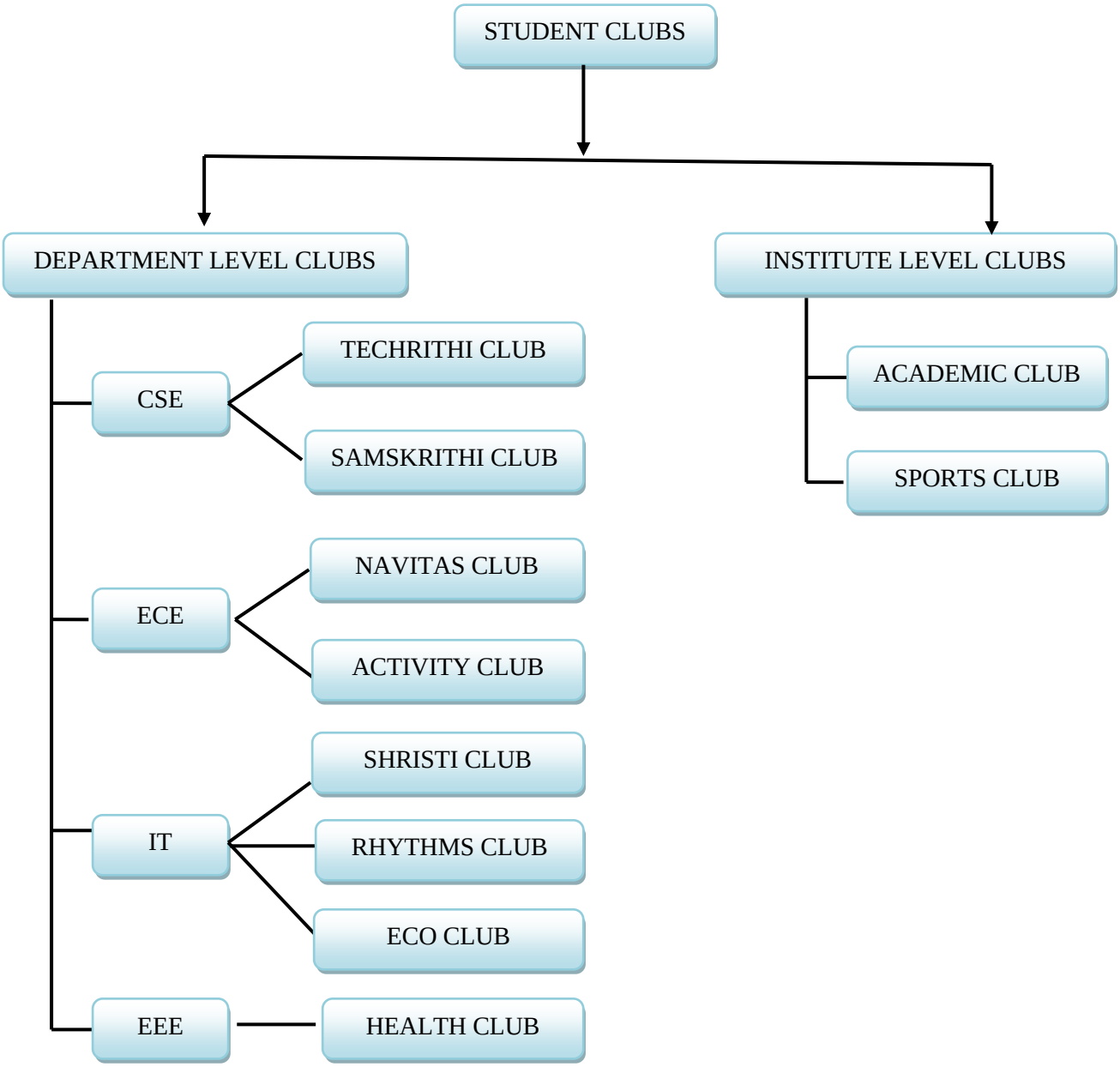


Figure 9.4.8 List of Student Clubs Available

i) Institute Level Clubs

Academic club and Sports clubs were formed under Institute level. Workshops, seminars, and guest lectures are organized under Academic club. Sports events are conducted under sports club. Details of events conducted under the Academic club and Sports club are listed below.

Table 9.4.13: Consolidated Sheet of Events conducted under Academic Club

S.NO	Type of Event	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	Workshops	10	27	25	21
2	Guest lectures	12	16	17	15
3	Seminars	10	9	8	15

Figure 9.4.9: Sample of Events Conducted under Academic Club

Table 9.4.14: Consolidated Sheet of Events conducted under Sports Club

S.No.	Club Name	Academic Year		
		2019-20	2018-19	2017-18
1	**Sports Club**	11	10	10

Figure 9.4.10: Sample of events conducted under Sports Club

ii) Department Level Clubs

Techrithi Club, Samskrithi Club, Navitas Club ,Activity Club, Shristi Club, Rhythms Club, Eco Club, Health Clubs are formed under the department level wise individually. Under these clubs many events are conducted for the students to exhibit their technical, non-technical skills and extracurricular activities. The events conducted under these clubs are tabulated in Table 9.4.15 to 9.4.23.

Table 9.4.15: Consolidated Sheet of Department level Clubs

S.NO	Club Name	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	**Techrithi Club**	2	7	2	1
2	**Samskrithi Club**	6	5	4	6
3	**Navitas Club**	2	1	3	3
4	**Activity Club**	3	5	7	4
5	**Shristi Club**	1	3	1	-
6	**Rhythm Club**	1	3	1	1
7	**Eco Club**	1	3	1	1
8	**Health Club**	1	1	2	3

Table 9.4.16: Type of Events Conducted Under Techrithi Club

Academic Year	2017-18	2018-19	2019-20	2020-21
Event name	Science Quiz	Story Writing	Google It	Code Hunt
Student Committee	B. Harshavarshini	A.S.S.Subramanyaeswari	V. HarshiniChowdary	K.Poornima

Demonstration	
Outcome	Students actively participated in this club to increase their logically thinking and communications skills.

Table 9.4.17: Type of Events Conducted Under Samskrithi Club

Academic Year	**2017-18**	**2018-19**	**2019-20**	**2020-21**
Event name	Nail Art	Flash Mob	Artsy Lens	Blue Day
Student Committee	K. Bhavishya	S. Malhotra	B.Niharika	P.Sarayu
Demonstration				
Outcome	Students actively participated in this club can exhibit their creative thinking skills.			

Table 9.4.18: Type of Events Conducted Under Navitas Club

Academic Year	2017-18	2018-19	2019-20	2020-21
Event name	Circuitrix	Quiz	Project Expo	Group Discussion
Student Committee	M.Selvi	Gayatri	Sushmitha Mondal	B.Jayasree
Demonstration	 			
Outcome	Students actively participated in this club to increase their technical and communication skills.			

Table 9.4.19: Type of Events Conducted Under Activity Club

Academic Year	2017-18	2018-19	2019-20	2020-21
Event name	Rangoli	Burst The Balloon	Throwball	Rainbow in the clouds
Student Committee	K.Jyostna Padmaja	Bhargavi	B.Leela	D.Sai Tejaswini

Demonstration	 
Outcome	Students actively participated in this club can exhibit their extra curricular activities.

Table 9.4.20: Type of Events Conducted Under Shristi Club

Academic Year	**2018-19**	**2019-20**	**2020-21**
Event name	Padha Yatra	Model Expo	Charito
Student Committee	Nammi Puja	Pilla Venkata Tanusha	Billapati Niharika

Demonstration			
Outcome	Students who participated in this club improved their volunteering skills, energy and money management. They Motivate towards the Social values.		

Table 9.4.21: Type of Events Conducted Under Rhyhms Club

Academic Year	**2017-18**	**2018-19**	**2019-20**	**2020-21**
Event name	Dance Competition	Flash Mob	Queen of IT	Dance
Student Committee	G Keerthi sai reddy	K Shanmuki	P. Sirisha	G.Mounika

Demonstration	
Outcome	To Develop the self-confidence towards cultural and it helps to develop entrepreneurs in dance, fine arts. It also develops the event management.

Table 9.4.22: Type of Events Conducted Under Eco Club

Academic Year	2017-18	2018-19	2019-20	2020-21
Event name	Anti-cracker rally	Swatchata Seva	Rally On "Save A Drop"	Online Essay Writing Competition on "Swatcchata : Tribute to Mahatma"
Student Committee	Bheemarasetty Bhanu Priyanka	Datti Pravallika	Jampa Sridivya	Pinninti Vandana

Demonstration	 
Outcome	Students participated were grown very familiar with the responsibility towards environment and its sustainability which helped them stand unique in personal interviews

Table 9.4.23: Type of Events Conducted Under Health Club

Academic Year	2017-18	2018-19	2019-20	2020-21
Event name	Blood Donation Campion "World Blood Donars Day"	The International Yoga Day	Awareness Program on Personal Hygene	Health Talk on "Impact of COVID19 on Human Behaviour"
Student Committee	N.Sharmini	K.Varsha Tejaswi	M.Deepthi Sree	D.Padmavathi

Demonstration	  
Outcome	Students actively participated in this club have gained a unique skill which impacted many other students to aware of health hazards and safety measures.

Effectiveness of Self-Learning at VIEW:

Self-Learning at VIEW has a huge response for its efficacy showing tremendous in developing products as illustrated below. These are the few highlights of outcomes of the self-learning at VIEW at national level published in various news papers.

5 city girls make gadget that will keep your stove burning

Kamalakara.Rao
@timesgroup.com

DEVICE THAT CAN SAVE LIVES

- The device alerts the user and the dealer if the cylinder is close to being empty a few days in advance
- The device will also alert the user if there is a gas leak
- Madhya Pradesh registers the highest number of LPG leakage cases
- Nearly one-sixth of deaths due to accidental fires are caused due to gas leakage
- There are **30 crore** LPG connections in India at the moment

(According to inputs given by students)

Visakhapatnam: Five girls from the city have invented a device that will alert consumers when their LPG (liquefied petroleum gas) cylinders are close to being empty and even when there are leakages. The girls have come up with a device that will have to be attached to the LPG cylinder.

The five girls are in their third-year of engineering in the electronics and communications stream at Vignan's Institute of Engineering for Women.

The girls who have come up with this transformative innovation are Ch Parimala, B Lalitha, K Niharika, K Lahari and B Geetha Bhavani. They were guided by associate professor Ch Ramesh Babu.

Speaking to **TOI**, Parimala said that they came up with the idea over routine chats at the college canteen. "Our intention was to create something that will help society," she said.

Discussing the invention, the girls said that when the device is attached to the cylinder, the device will send a message to both the user and the dealer informing them if and when the cylinder is nearly empty. The information will also be displayed on the LCD. Moreover, the device will also alert when there is a leakage.

"We hope that our project will help reduce fire mishaps due to gas leaks. Moreover, the system provides a fully automated approach for booking cylinders," Parimala informed.

Lalitha, another member of the group said that even though technology and devices exist to detect and alert leakages many people in rural areas are not aware of them. "We have introduced this prototype to help overcome such problems in rural areas," Lalitha said.

On being contacted, Anurag Shrivastava, general manager (LPG wing) of Hindustan Petroleum Corporation Limited (HPCL) said that the students can directly approach the HPCL's headquarters in Mumbai if they have come up with something novel. HPCL's team will review the project and if they find something novel in it they will do justice to the idea, Shrivastava informed.

A cheap robotic hand of foam to make life simpler

Kamalakara.Rao
@timesgroup.com

HANDS-FREE COMFORT

Material used	Cost
Foam, fishing string	₹10,000

- Gloved hand can control the robotic hand from a distance
- The robotic hand imitates the movements of the gloved hand
- Robotic hands in the market cost ₹35,000 to ₹40,000 at least

CAN BE USED BY

- Disabled persons
- Security personnel for safer diffusion of bombs
- Firemen
- Pharma professional
- Relief workers

K Sumanjali, P Bhavya Kumari and B Sravani display the animatronic hand at an expo

Visakhapatnam: Three city students have designed a robotic 'hand' that can solve a lot of problems for the disabled. The device, which the students call an 'Ani- ic hand', can also be use fectively by fire personnel or even people from pharma industry. The robotic hand can act as a duplicate hand for the user and imitates all movements of a hand in flesh and blood. The more interesting part is, one needs to 'wear' the hand.

Take the example of a bomb disfusion situation. To make things a lot safer, a cop can stay at a distance and the animatronic hand would do the job for him, imitating the movements of his hand, through a remote control. What's more, this robotic hand is really cost-effective and comes at a price lower than ₹10,000.

The hand has been built using foam sheet and fishing thread. The fishing threads are attached to five servo motors which control the movement of the hand.

The three students, K Sumanjali, P Bhavya Kumari and B Sravani, are final year students of Information Technology at the Vignan Institute of Women Empowerment (View), Visakhapatnam.

Speaking to **TOI**, Bhavya said that they thought of creating the device with an intention to help the poor and the diabled. The market has such animatronic hands, she said, but these devices cost around ₹35,000 to ₹40,000.

"We have changed the conevntional designs of a robotic hand to create this. We took the device to some expos where it received good response," Bhavya added.

Sumanjali told **TOI** that the hand can help people working in the chemical industry avoid skin diseases. "Many who work in pharma and chemical industries often face accidents and may even lose their arms since they work with strong acids. One can also use this hand for bomb difusion," Sumanjali added.

Figure 9.4.11. Highlights of outcomes of the self-learning at VIEW published in various news papers

9.5 CAREER GUIDANCE, TRAINING & PLACEMENTs (10)

9.5.1. Career Guidance Facilities:

Vignan's Institute of Engineering For Women has an effective career guidance system with an effective committee and resources which helps students to decide correct and aspired career path. Career Guidance Cell (CGC) operates with the above stated committee in accordance with students at institute level and individual level.

- **Institute Level:** Programs which helps students to decide and work towards their desire career will be organized.
- **Individual Level:** Any individual students or the students recommended for career counselling will be directed to CGC and an expert counselling will be provided in choosing their desired career path and working towards it. Special cases directed by Principal, TPO and Program Coordinators will be guided accordingly by CGC whenever it is necessary.

Table 9.5.1. Career Guidance Cell Committee

S.No	Name of the Faculty	Position	Role
1	Dr.J.Sudhakar	Principal	Chairman
2	Dr.K.V.Ramana Rao	Training and Placement Officer(TPO)	Member
3	Mr.M.Krishna Kishore	Assistant TPO	Member
4	Dr.Akansha Mishra	Associate Professor	Member
5	Dr.P.Vijaya Bharati	Associate Professor	Member
6	Mr.G.Lakshmana	Assistant Professor	Member
7	Mr.G.Netaji	Assistant Professor	Member

The college regularly conducts Personality Development Programs to improve the communication skills of the students from rural background which reassures students of their skills and abilities to succeed. Guest speakers from various industries are invited to provide a broad exploration of various career options and industry knowledge to the students.

Various Career guidance programmes will be organized by the Career Guidance Cell at institute level which helps students to choose, work and achieve their desired career goals. These programs were categorized and will be commenced with the approval of principal and all the program coordinators. Such events were listed below in table 9.5.2.

Table 9.5.2. Career Guidance Programs conducted

S.No	Date	Name of the Speaker	Students Participated	Topic	Illustration
1	28-01-2019 & 29-01-2019	Mr.Suresh Kumar Tankala	316	Skills First… Jobs Follows	
2	19-03-2019	Lynn Perry	155	Seminar on International career guidance	

3	03-07-2017	Mr.LakshmipuramVenugopal	150	Motivational Seminar – Acquire Knowledge, Save a life	
4	16-07-2021	Mr.Suresh Kumar Tankala	200	Preparation for Campus Placement	

9.5.2. Counselling For Higher Studies

Career Guidance Cell is also responsible for counselling the students for higher studies in the diversified fields of engineering or others in line with the interest and performance of the students. Various higher education awareness programs were conducted to give the detailed structure and instructions set for the students to enhance their knowledge to clear GATE/GRE, GMAT etc.

Table 9.5.3. List of Programs to counsel the students towards higher studies

S.No	Date	Topic	Resource Person
1	17.07.17	Awareness Program On Higher Education Given By Global Tree	Mr.Beesetty G V S Prakash, Business Development Manager
2	22.12.17	Oppurtunities In Abroad By Higher	Mr. Ch.Venkata Ramaiah,

		Studies	Marketing Manager
3	24.01.18	Preparation For GATE, ESE & PSU By Engineers Hub	Prof.A.W.Iqbal Dean Academics
4	16.06.18	Importance Of GRE,GMAT,TOEFL By Conduira	Mr.P.V.Rama Sasank, Director
5	13.12.18	Create Awareness On Overseas Education System	Mr.M.Babuji, Marketing
6	28.01.19	Opportunities In US by Global Reach	Mr.Sasi Kiran Nammi, Marketing Development Executive
7	27.12.19	Higher Education Awareness Program By PVK Educational Consultants	Ms.P.Pushpalatha, Director
8	04.02.20	An Insight Into The Preparation For Gate By Gate Academy	D.VijaySastry, Consulting Partner
9	03.09.21	Awareness Program On Design Courses Like CAD, CREO Etc	Apoorv Bapat, Founder And CEO, Eleation
10	06.10.21	Insight To The Preparation Of Python Programming, Android Apps And Web Development By Finland Labs	Jeetu Gupta**,**Finland Labs(Unit of Revert Technology Pvt. Ltd)

Apart of these programs, students those who desires counselling for higher studies will be direct to CGC for further guidance. CGC was chosen to have all the senior level faculty with the department expertise who are well aware of all the possibilities and can counsel the students. Wherever necessary the CGC recommends such students who are keen about their higher studies will be allotted with a mentor specialised in the respective fields.

Table 9.5.4. Effectiveness & Impact Analysis of CGC:

S.No	Name of the Student	Problem	Strategy to rectify problem of the Student	Efficacy/Outcome
1	**Pyla Mounika (A.Y. - 2018)** 	Since she came from telugu background, she was not confident enough to face the campus drives. Due to lack of communication skills she was rejected in 16 companies.	She was continuously given moral support by the TPO and was given training for a period of one month to improve her communication skills	Got placed in JUSPAY company with a package of 12 lakhs per annum
2	**Kotipalli Madhavi (A.Y. - 2019)** 	As she was a mother of 2 kids she got break in her academics. Due to the breakage in her academic career she got rejected by 24 companies in final HR round.	With the guidance of TPO she has undergone internship training with a stipend of Rs 5000/- which helped her to get selected in campus recruitment drive.	Got placed in AMAZON Company with a package of 18 lakhs per annum.
3	**Baliboyna Niharika (A.Y. - 2020)** 	She came from a family which is financially weak. At initial stages during campus recruitment she was unable to clear campus drives due to lack of confidence.	With continuous support given from CGC & TPO she was able to gain her confidence back and backed her practical skills which helped her to get placed in one of the top MNC's in the country.	Got placed with a package of 19 lakhs per annum in AMAZON.

4	**Dandela Sai Tejaswini** **(A.Y. - 2021)** 	As she is not from CSE background she struggled to learn and understand coding concepts.	She was given continuous support by In-house trainers to learn and improve her Coding Concepts and also encouraged to do courses related to aptitude and coding platforms like COURSERA,UDEMY etc.	Got placed with a package of 6.5 lakhs per annum in Accenture.
5	**Maddi Annapurna** **(A.Y. - 2021)** 	She came from a poor financial background and unable to afford any trainings in addition to In-house Trainings	Under the guidance of In-house trainers she improved her coding skills and with the help of Academic Faculty members she completed real time projects and internships.	Got placed with a package of 6.5 lakhs per annum in Accenture.


CAREER GUIDANCE CELL
EFFECTIVENESS
VIGNAN'S
INSTITUTE OF ENGINEERING FOR WOMEN
Dandela Sai Tejaswini (18NM5A0412)
PROBLEM :
As she is not from CSE Background she struggled to learn and understand Coding Concepts
RECOMMENDATIONS :
She was given continuous support by in-house trainers to learn and improve her coding concepts and also encouraged to do courses related to aptitude and coding platforms like COURSERA, UDEMY etc.
EFFICACY:
Got placed for
accenture
Package
6.5
LPA
2020-2021


CAREER GUIDANCE CELL
EFFECTIVENESS
VIGNAN'S
INSTITUTE OF ENGINEERING FOR WOMEN
Maddi Annapurna (17NM1A0596)
PROBLEM :
She came from a poor financial background and unable to afford any trainings in addition to in-house trainings
RECOMMENDATIONS :
Under the guidance of in-house trainers she improved her coding skills and with the help of academic faculty members she completed real time projects and internships.
EFFICACY:
Got placed for
accenture
Package
6.5
LPA
2020-2021

CAREER GUIDANCE CELL
EFFECTIVENESS

VIGNAN'S
INSTITUTE OF ENGINEERING FOR WOMEN

Baliboyna Niharika (16NM1A0512)

PROBLEM :

Lack of self motivation with her financial considerations father being a bike mechanic.

RECOMMENDATIONS :

With the support of CGC through placement support she was recommended for an internship with amazon with product development training.

EFFICACY:

Got placed for amazon

Package 19 LPA

2019-2020

CAREER GUIDANCE CELL
EFFECTIVENESS

VIGNAN'S
INSTITUTE OF ENGINEERING FOR WOMEN

Kotipalli Madhavi (15NM1A0559)

PROBLEM :

Her education gap in academics, she was rejected by 16 companies.

RECOMMENDATIONS :

With the support of CGC she has undergone internship training with a stipend of Rs 5000/- which help her to get placed in one of the top MNC's Company

EFFICACY:

Got placed for amazon

Package 18 LPA

2018-2019

9.5.3. Pre-Placement Training

Pre-placement training at VIEW was developed to enhance the student's skills such as communication skills, soft skills, personality development skills and technical skills through outcome based education. Skill sets focused to be developed by Pre-placement training will be cumulated by the below Training & Placement Cell Committee from the employer feedbacks.

Table 9.5.5. Training & Placement Cell Committee

S. NO.	NAME	DESIGNATION	POSITION
1	Dr. J. Sudhakar	Professor	Principal
2	Dr.K.V.Ramana Rao	Associate Professor	Training and Placement Officer
3	Mr.M.Krishna Kishore	Assistant Professor	Assistant Placement Officer
4	Mr.J.Ravi Chandra	Assistant Professor	Technical Trainer
5	Mr. K.Srinivasa Rao	Assistant Professor	T & P coordinator – EEE
6	Mr.D.Kesava	Assistant Professor	T & P coordinator – ME

7	Mr.G.Lakshmana	Assistant Professor	Placements coordinator – ECE
8	Mr.E.Tataji	Assistant Professor	Training coordinator – ECE
9	Mr.R.Ravi	Assistant Professor	T & P coordinator – CSE
10	Mr.S.Sagar	Assistant Professor	T & P coordinator – IT
11	Mrs.M.Satyavathi	Assistant Professor	T & P coordinator – MBA
12	Mr.P.L.J.E.Kiran	Senior Assistant	T & P Assistant
13	Mrs.P.Pratyusha	Junior Assistant	T & P Assistant

The recommendations or the suggestions given by the employers and program coordinator will be taken in to the consideration while designing the Pre-Placement Training Calendar. The Pre-Placement Training from Training and Placement will be circulated among all the program for circulations.

Steps in designing Pre-Placement Training:

1. Acquiring feedback of employers and program coordinators.
2. Cumulative recommendations will be developed for the Principal Approval.
3. Preparation and circulation of Pre-Placement Training Calendar.
4. Instructing the students to finish pre-requisites through web-based learning.
5. Ensuring the conduct of Training programs as per the calendar.
6. Conduct of company specific trainings wherever a specific skill was required from the students through Job descriptions (JD).
7. Ensuring the students to be ready for placements before the campus interviews scheduling.

Implementation of Pre-Placement Training:

Post designing the Pre-Placement Training Calendar, a defined procedure will be implemented for executing the Pre-Placement Training:

1. From II B.Tech onwards two non credit courses were implemented such as:
    a. Aptitude Training – Reference globe LMS (Life Time Access)
    b. Technical Training (Core & Programming Skills) – Reference globe & Hackerrank
2. Before IV B.Tech, undertaking forms will be issued to all the students for their consent towards training.

3. Students reporting those who are not willing will be forwarded to CGC through TPO.
4. Students who accepted the undertaking, training will be processed through the following modules;
    a. Campus Recruitment Training (Eligibility: above 60% aggregate in academics / special cases recommended by program coordinator through principal if any)
        i. Product Development Training.
        ii. Application Oriented Training.
    b. Company Specific Training (as per the eligibility & JD)
    c. Professional Internships (Through Campus hiring / Internshala)
    d. Specialised Training (If any concerns from Principal/CGC/Program Coordinator)
5. Both the stated trainings will be carried out by the following organizations as stated where ever they were recommended by Principal and TPO.

Table 9.5.6. List of MOU's made for Pre-Placement Training Programs

S.No	MOU with companies	MOU with Institution	Description	Date of MOU
1	Techno Soft solutions(TSS), Visakhapatnam	VIEW	Imparting training courses	09.01.2012
2	M/s.ConsortiumofInstitutionsofHigherLearning(CIHL)	JNTUK	Innovative Inter-disciplinaryPG program in informationTechnology	04.04.2012
3	GlobarenaTechnologies(P)Ltd.,Hyderabad	JNTUK	Centre of Excellence for e-resource Developmentand Deployment Project(CoEeRD)	06.03.2012
4	RandstadIndiaLimited,Chennai	VIEW	Providing Job placements	05.04.2013
5	COIGNEDU & IT Services(P) Ltd.,Hyderabad	VIEW	ImpartingTraining Courses	03.07.2014
6	M/s.CADDBoxsolutions,Visakhapatnam	VIEW	Conducting CAD Training & Certification	19.07.2014
7	Smart&Softsolutions,Visakhapatnam	VIEW	Certification Training of MicrosoftITCourses	23.07.2014

8	Focus Academy for CareerEnhancement(FACE),Coimbatore	VIEW	IBMSpecificaptitudecracker Programme	02.12.2014
9	Focus Academy for CareerEnhancement(FACE),Coimbatore	VIEW	Campus placement CrackerProgramme	14.02.2015
10	Focus Academy for CareerEnhancement(FACE),Coimbatore	VIEW	CompanySpecificaptitudecracker Programme	06.08.2015
11	M/s.GRAFXIT SolutionsPvt.Ltd.,	VIEW	SkillDevelopmentProgramme	27.08.2015
12	Leadership 'Foundation',Srikakulam	VIEW	Technologyincubation Hub	05.01.2016
13	TalentiosolutionsIndiaPvt.Ltd.,Hyderabad	VIEW	SkillEnhancementProgramme	17.02.2016
14	Focus Academy for CareerEnchancement(FACE),Coimbatore	VIEW	WIZARDIT	03.05.2016
15	OMNIRKSUPERSPECIALITYHOSPITAL Ramnagar,Visakhapatnam	VIEW	Training Placement for the Staff,Knowledge sharing in terms ofNetworkingand Computer applications	29-06-2017
16	ConfederationofIndianIndustry(**CII**),Visakhapatnam	VIEW	Influence inspire andmotivationofstudents	25-07-2017
17	BrainOVisionSolutionsIndiaPvt. Ltd.,Hyderabad-500 081	VIEW	To enhance the intellectualquotient andaptitudeforthe CSE/ECE/IT/EEE	02-01-2018
18	APSSDC,Vijayawada	VIEW	To make qualitativeimprovementsinimparting TechnicalSkills.	29-03-2018
19	SATVATINFOSOLPRIVATELIMITED	VIEW	AuthenticatedTestVenueforconductofvariousonlineexaminationsforits Governmentclients	27-09-2018
20	M/s.DataproComputersPvt.Ltd.,Visakhapatnam	VIEW	Train the Students in ComputerLanguageslikeC,C++,andCore Javaetc…	16-07-2019

21	APSSDC,Vijayawada	VIEW	To make qualitativeimprovementsinimparting TechnicalSkills.	29-07-2019
22	PARAMARSHSchemefromUGCVignan'sInstituteofInformation Technology,Visakhapatnam	VIEW	Mentoring the Non-AccreditedHigher Education Institution toenablethemtoget accredited.	26-08-2019
23	NSEITLtd.,Andheri(East), Mumbai-400 059	VIEW	To Provide the requisiteinfrastructure and manpowerresourcesexclusivelytoNSEIT to conductComputerBased Exams.	28-08-2019
24	E&ICT Academy at National InstituteofTechnology,Warangal-506004	VIEW	FacultyDevelopmentProgrammeswiththeaimtoimprovethequalityofteachingand also qualityof education.	30-08-2019

Table 9.5.7 Effectiveness & Impact of Training through Professional Internships:

S.No.	Hired On	Students Name	Company Name	Stipend
1	28-11-2017	AripakaVijayaLavanyaLikita	Renaissance VIT Chennai	Performance Based
2	04-12-2017	AvuthuPratyusha Reddy	Indiabulls	Rs2000 /Month
3	24-11-2017	Kavita	AP Janmabhoomi	Performance Based
4	28-12-2017	Uma Divvela	Kalakar	Rs2000 /Month
5	20-12-2017	Swetha Pitta	Wooplr Technologies Private Limited	Performance Based
6	06-12-2017	KoribilliSravani	AP Janmabhoomi	Performance Based
7	25-11-2017	LikhitaPolamarasetti	AP Janmabhoomi	Performance Based
8	25-11-2017	DokalaAnusha	AP Janmabhoomi	Performance Based
9	18-12-2017	Uma Divvela	Unmaad IIM Bangalore	Performance Based
10	11-12-2017	LakshmiLavanya	Simsam	Rs 5000-10000 /Month
11	25-11-2017	KiranmaiChalla	AP Janmabhoomi	Performance Based

12	25-11-2017	SanapathiLavanya	AP Janmabhoomi	Performance Based
13	25-11-2017	MadhushaliniMantha	AP Janmabhoomi	Performance Based
14	25-11-2017	VysaliPinnamaraju	AP Janmabhoomi	Performance Based
15	25-11-2017	M RatnaSahithi	AP Janmabhoomi	Performance Based
16	01-08-2017	SrivalliMalla	Digital Web Analytics And Optimization	Rs 3000 /Month
17	30-09-2017	BhavanaAyyankala	Creation Cradle	Performance Based
18	08-09-2017	LohithaChatti	Learning	Rs 5000-10000 /Month
19	20-04-2018	KovvuriLalitha	Youth Empowerment Foundation	Performance Based
20	28-01-2018	Uma Divvela	Easy Nirman	Rs 3000 /Month
21	28-03-2018	LikhitaPolamarasetti	India Redefined	Performance Based
22	25-03-2018	KukkadapuPratyusha	India Redefined	Performance Based
23	27-11-2018	NadikoppulaDivya	United Nations Volunteer	Performance Based
24	17-11-2018	NadikoppulaDivya	India Redefined	Performance Based
25	26-07-2018	BalireddyShyne	Happyshappy.Com	Performance Based
26	24-03-2018	ShushmaSree	Getinhours	50 /500 Products
27	23-02-2018	SrivalliMalla	E-Summit IIT Roorkee	Performance Based
28	08-02-2018	SrivalliMalla	Aparoksha , IIIT Allahabad	Performance Based
29	12-01-2018	LikhitaPolamarasetti	Whizjuniors	Rs 3000 /Month
30	23-07-2018	NadikoppulaDivya	E-Cell, IIT Bombay	Performance Based
31	11-06-2018	Priyanka Bobbadi	Creation Cradle	Performance Based
32	10-04-2018	Priyanka Bobbadi	Fehype	Performance Based
33	26-08-2019	Sindhu Mallidi	Technovit 2019, VIT Chennai	Performance Based
34	25-08-2019	V Kavya Kanaka Mahalakshmi	India Redefined	Performance Based
35	25-08-2019	Tummapala Jaya	India Redefined	Performance Based
36	25-08-2019	Parapati Neelaveni	India Redefined	Performance Based

37	24-08-2019	Nemani Subha Sri	Technovit 2019, VIT Chennai	Performance Based
38	24-08-2019	Tummapala Jaya	Technovit 2019, VIT Chennai	Performance Based
39	23-08-2019	V Kavya Kanaka Mahalakshmi	Technovit 2019, VIT Chennai	Performance Based
40	23-08-2019	ParapatiNeelaveni	Technovit 2019, VIT Chennai	Performance Based
41	23-08-2019	MattaparthiSamyuktha	Technovit 2019, VIT Chennai	Performance Based
42	22-08-2019	VineethaLankada	India Redefined	Performance Based
43	04-07-2019	MattaparthiSamyuktha	Ludifu	Rs 20000-30000 /Month
44	22-06-2019	MattaparthiSamyuktha	India Redefined	Performance Based
45	15-03-2019	LalityaGunisetty	IDBI Federal Life Insurance Company Limited	Rs10000-15000 /Month
46	15-03-2019	DeepikaEjji	Toise Tech Products (Opc) Private Limited	Rs 9000 /Month
47	15-03-2019	DeepikaEjji	Entreesphere	Rs 2500 /Month
48	12-03-2019	DeepikaEjji	Bit Brothers	Rs 5000-10000 /Month
49	10-02-2019	KandregulaBhagyasri	Tryst, IIT Delhi	Performance Based
50	22-01-2019	NadikoppulaDivya	Tryst, IIT Delhi	Performance Based
51	14-01-2019	NadikoppulaDivya	E Cell, Fms Delhi	Performance Based
52	27-10-2019	Asikavya Reddy	India Redefined	Performance Based
53	06-03-2019	MounikaPentakota	Versada Technologies Private Limited	Rs 5000 /Month
54	18-07-2020	Reeshma Karri	Techfest, IIT Bombay	Performance Based
55	05-07-2020	Bhavana	Skills connect Global Private Limited	Rs1000 /Month + Incentives
56	01-06-2020	KeerthiVurukuti	Muskurahat Foundation	Rs 5000-10000 Lump Sum
57	23-12-2020	BeharaAnusha	Grip At The Sparks	Performance Based

			Foundation	
58	11-12-2020	Bobbili Sri Kavya	Edhad	Rs 250 /Week
59	22-10-2020	Priyanka Ampolu	Ogresto	Rs 1000-5000 /Month
60	29-09-2020	Lakshmi DurgaKaranam	Youth Empowerment Foundation	Performance Based
61	29-09-2020	Lakshmi DurgaKaranam	Youth Empowerment Foundation	Performance Based
62	28-09-2020	Lakshmi DurgaKaranam	Shreshtha Bharat Foundation	Performance Based
63	13-09-2020	Priyanka Ampolu	Express Event Station	Rs 2000 Lump Sum
64	05-09-2020	BagathiHemalatha	Muskurahat Foundation	Rs 5000-10000 Lump Sum
65	04-09-2020	BagathiHemalatha	Innovators And You	Rs 5000 /Month
66	10-08-2020	Priyanka Ampolu	Tutree	Rs 1000 /Month
67	21-07-2020	Joshi RamyaTeja	The Prayas India	Rs 1000 /Month
68	29-06-2020	MallaJahnavi Sri Lakshmi	Earth Samvarta Foundation	Performance Based
69	23-06-2020	Bobbili Sri Kavya	India Redefined	Performance Based
70	21-06-2020	Poornima Devi Pulamarasetti	International Model United Nations	Performance Based
71	21-06-2020	MaddineniSarika Lakshmi Sushmitha	International Model United Nations	Performance Based
72	11-06-2020	Sri Swamy Vivekananda School	HamariPahchan NGO	Rs 500-1000 /Month
73	10-06-2020	RompalliYashoda	World Youth Council	Performance Based
74	10-06-2020	MaddineniSarika Lakshmi Sushmitha	World Youth Council	Performance Based
75	10-06-2020	MallaJahnavi Sri Lakshmi	HamariPahchan NGO	Rs 500-1000 /Month
76	08-06-2020	ChillaGeetha Rani	World Youth Council	Performance Based
77	04-06-2020	Mary Lavanya	HamariPahchan NGO	Rs 500-1000 /Month

78	31-05-2020	Lilly KumariRepaka	International Model United Nations	Performance Based
79	28-04-2020	Bandaru Lakshmi Venkata Sai Jahnavi	Gopal Khandelwal	Rs 1000 /Month
80	27-04-2020	Buddha AneelaBhargavi	Cvdragon India	Performance Based
81	15-04-2020	Kavali Naga Deepika	Chaithanyam Institute Of Development	Rs 4500-7500 /Month
82	02-04-2020	SaranyaMadeti	India Redefined	Performance Based
83	02-04-2020	Allu Sowjanya	India Redefined	Performance Based
84	02-04-2020	Allu Sowjanya	India Redefined	Performance Based
85	30-03-2020	ChumburuParimala	India Redefined	Performance Based
86	16-03-2020	Joshi RamyaTeja	Be of Use	Rs 1000 /Month
87	27-02-2020	DeepikaSivala	Werp-India	Performance Based
88	25-02-2020	SupriyaKalidindi	Muskurahat Foundation	Rs 5000-10000 Lump Sum
89	05-02-2020	VennalaSruthi	Techkriti, IIT Kanpur	Performance Based
90	05-02-2020	KalagaSahitya	Techkriti, IIT Kanpur	Performance Based
91	28-01-2020	KalagaSahitya	Tryst, IIT Delhi	Performance Based
92	27-01-2020	KycharlaLeelavathiKycharla	VibranceVIT Chennai	Performance Based
93	11-01-2020	Sai MounicaMadaka	E Cell, Fms Delhi	Performance Based
94	05-01-2020	SushmaPalem	Cognizance IIT Roorkee	Performance Based
95	02-01-2020	JogavajjhulaPoornima	Felicity, IIIT Hyderabad	Rs1000 /Month
96	25-06-2021	GajjalaVenkataMounika	Techfest, IIT Bombay	Performance Based
97	23-04-2021	ChidapareddiMonisha	Grip At The Sparks Foundation	Performance Based
98	04-03-2021	VijayaVasavi Krupa Gopalabatla	Apogee, BITS PILANI	Performance Based

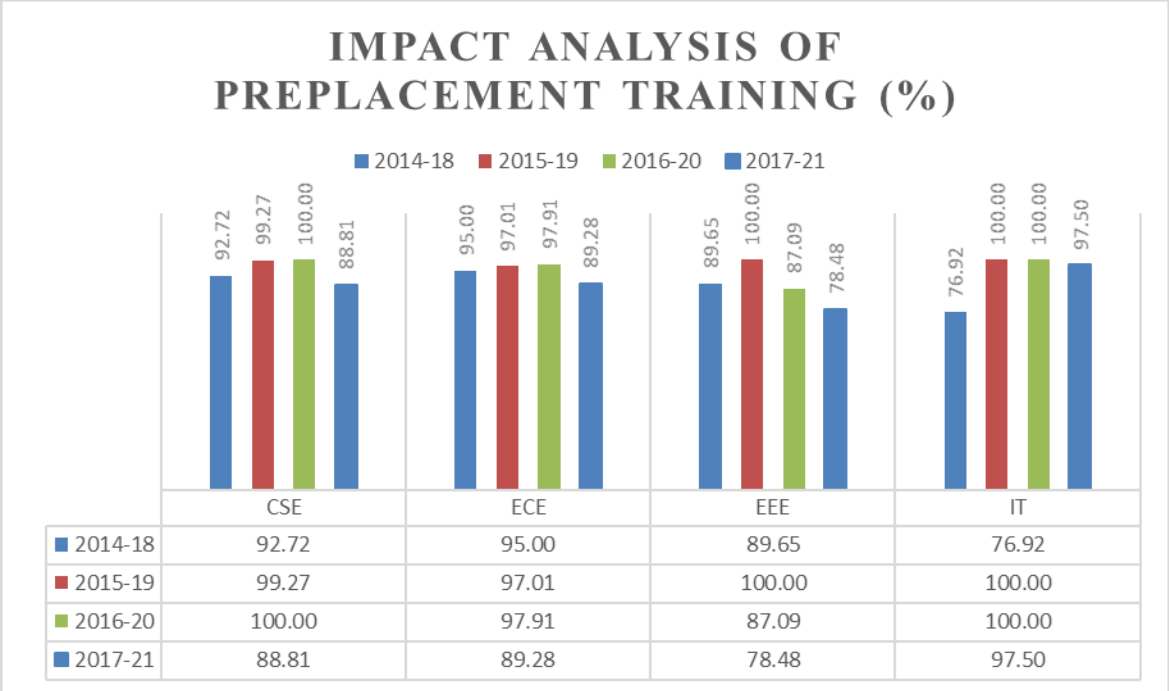
Effectiveness & Impact Analysis Pre-Placement Training:

Effectiveness and impact analysis of our pre-placement training was illustrated in below Figure 9.5.1 which shows the continuous improvement in the last three academic yearsamong all the

programs. Percentage of students got placed who received pre-placement training was given in detail in the Table 9.5.8.

Table 9.5.8. Effectiveness of the Pre-Placement Training:

S No	Batch	Branch	Total Strength	Students Registered	Students Placed	%
1	2014-18	CSE	170	110	102	92.72
		ECE	172	100	95	95.00
		EEE	59	29	26	89.65
		IT	15	13	10	76.92
2	2015-19	CSE	183	137	136	99.27
		ECE	184	67	65	97.01
		EEE	86	33	33	100.00
		IT	49	29	29	100.00
3	2016-20	CSE	189	135	135	100.00
		ECE	193	96	94	97.91
		EEE	118	62	54	87.09
		IT	49	28	28	100.00
4	2017-21	CSE	195	143	127	88.81
		ECE	196	140	125	89.28
		EEE	121	79	62	78.48
		IT	54	40	39	97.50



	CSE	ECE	EEE	IT
2014-18	92.72	95.00	89.65	76.92
2015-19	99.27	97.01	100.00	100.00
2016-20	100.00	97.91	87.09	100.00
2017-21	88.81	89.28	78.48	97.50

Figure 9.5.1 Effectiveness & Impact Analysis Pre-Placement Training

9.5.4. Placement Process & Support

Placement Process & Support at Vignan's Institute of Engineering For Women was led by the Training & Placement Committee as stated in Table 9.5.5. In the beginning of the Placement Academic year, an invitation brochure with the prospects of our institution will be sent to different organizations meeting the standards of our students inviting to test, analyse and recruit our students. Placement support is inclusive of the TPC committee provided with dedicated seminar hall for pre-placement talks, board room for panel discussions, 3 interview panels with a provision for another 4 panels with restructuring for TR & HR interviews. Successive procedure of ***Placement Process and Support*** is as follows:

1. Inviting selective organizations/companies through institute prospects brochure.
2. Collecting the Job Descriptions of the organizations/companies to ensure the prerequisites of our students trained.
3. If any deficiencies or extra skills required will be asserted and forwarded to Principal through TPO for further approval of conduct.
4. Ensuring the students undergone pre-placement training meet the JD requirements.

5. Upon the campus hiring request received by the company, the same will be concerned the Principal and TP Cell Committee for further approval date of conduct of campus hiring with reference to step 4 & 5.
6. Schedule date/date's will informed to students through TP Cell for preparing themselves in prior for the campus hiring.
7. Ensuring the eligible students have all the documents verified by the respective member of TPC Committee at least 24 hours prior to the hiring process.
8. Conduct of the campus drive with all the amenities at our institution.
9. If the requirement of the company/organization is beyond the number of eligible students at our campus we are inviting in and around campuses students to participate in the campus hiring with social responsibility.
10. Feedback will be taken against the performance of our students for further improvement in the pre-placement training process.
11. Post hiring process, the list of selected students will be sent to Program coordinators through principal for further filing of offer letters/confirmation as proof of placement.

Effectiveness & Impact Analysis of Placement Process & Support:

The effectiveness of the Placement Process & Support system designed and adopted at VIEW was very effective over last three academic years and clearly illustrated in the Table 9.5.9. and is shown in Figure 9.5.2.

Table 9.5.9 Effectiveness of Placement Process & Support:

S No	Batch	Branch	Total Strength	Final Placements	% Placed
1	2014-18	CSE	170	142	83.52
		ECE	172	137	79.65
		EEE	59	47	79.66
		IT	15	10	66.67
2	2015-19	CSE	183	165	90.16
		ECE	184	144	78.26
		EEE	86	67	77.90

		IT	49	35	71.42
3	2016-20	CSE	189	149	78.83
		ECE	193	148	76.68
		EEE	118	91	77.11
		IT	49	36	73.46
4	2017-21	CSE	195	150	76.92
		ECE	196	149	76.02
		EEE	121	77	63.63
		IT	54	42	77.77
Overall			**2033**	**1589**	**78.16**

Impact Analysis of Placement Process & Support:

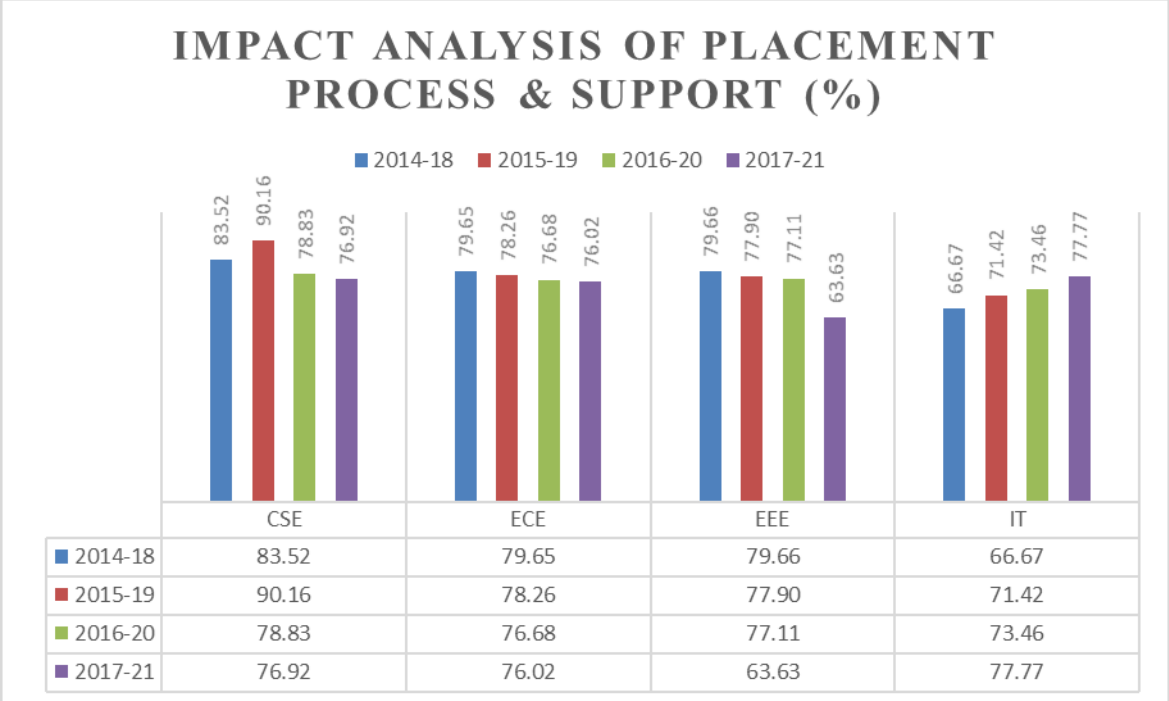


Figure 9.5.2 Impact Analysis of Placement Process & Support

For the batch of 2015-2019 the core streams/programs has slight drop in number of students placed because of the recession in core streams and however for the software streams/programs CSE & IT over the last three academic years there is a continuous improvement in number of students placed.

9.6. Entrepreneurship Cell (5)

(The institution may describe the facility, its management and its effectiveness in encouraging entrepreneurship and incubation) (Success stories for each of the assessment years are to be mentioned)

The Entrepreneurship Development cell in Vignan's Institute of Engineering for Women was established in the year 2012 under the supervision of the Department of Management Studies. The head of the Entrepreneurship Development cell is Dr. S Ramesh, HOD-MBA and a team of dynamic faculty coordinators from various departments together form a strong team in encouraging entrepreneurship. The goal of EDC is to assist the students, faculty and budding entrepreneurs within the college with start-ups or existing business in regards to the management of finances, marketing, product development and commercialization. The students are provided with the latest inputs about the industry, the dynamic changes happening around to make them understand the employability options and opportunities to help them create better opportunities.

The ED Cell functions on the following goals:

- To create an environment for self-employment, promote innovation and Entrepreneurship development through various programs
- To introduce the concept of Entrepreneurship as a part of the curriculum
- To promote employment opportunities
- Intellectual Property Rights/Management
- Help with Presentation Skills and Business Etiquettes
- Comprehensive Business Training Programs

9.6.1 Entrepreneurship Development Cell Committee

The members of the Entreprenuership Development Cell Committee include Principal, Acedamic Director, All Head of the Departments and One faculty from each Department. The details of the committee are listed in Table 9.6.1.

Table 9.6.1: Members of the Entrepreneurship Development Cell Committee

S.No	Name	Designation	Position
1.	Dr.J.Sudhakar	Principal	Chairman

2.	Prof.A.Sesha Rao	Academic Director	Member
3.	Dr.K.Vijaya Kumar	HoD-CSE	Member
4.	Dr.Ch.Ramesh Babu	HoD-ECE	Member
5.	Dr.K.Durga Syam Prasad	HoD-EEE	Member
6.	Dr.B.Prakash	HoD-IT	Member
7.	Dr.V. Ananda Babu	HoD-MECH	Member
8.	Mr.M.Eswar Teja	Asst. Prof-MECH	Member
9.	Ms. V.V. Sai Santhoshi	Asst. Prof- EEE	Member
10.	Mr.L.Jagajeevan Rao	Asst. Prof- CSE	Member
11.	Mrs. B. Manjula	Asst. Prof- ECE	Member
12.	Dr. S. Ramesh	Assoc. Prof-MBA	Co-ordinator

9.6.2 Entrepreneurship Initiatives

The initiatives of the ED cell focuses on the development of primarily the students as well as the faculty therefore the programs are conducted as per the interests of the students either higher studies or placement assistance and training or entrepreneurship. The faculty who are interested in entrepreneurship or specialized in marketing are encouraged to attend various Faculty development programs, workshops and seminars in order to develop their skills and fulfill their interests.

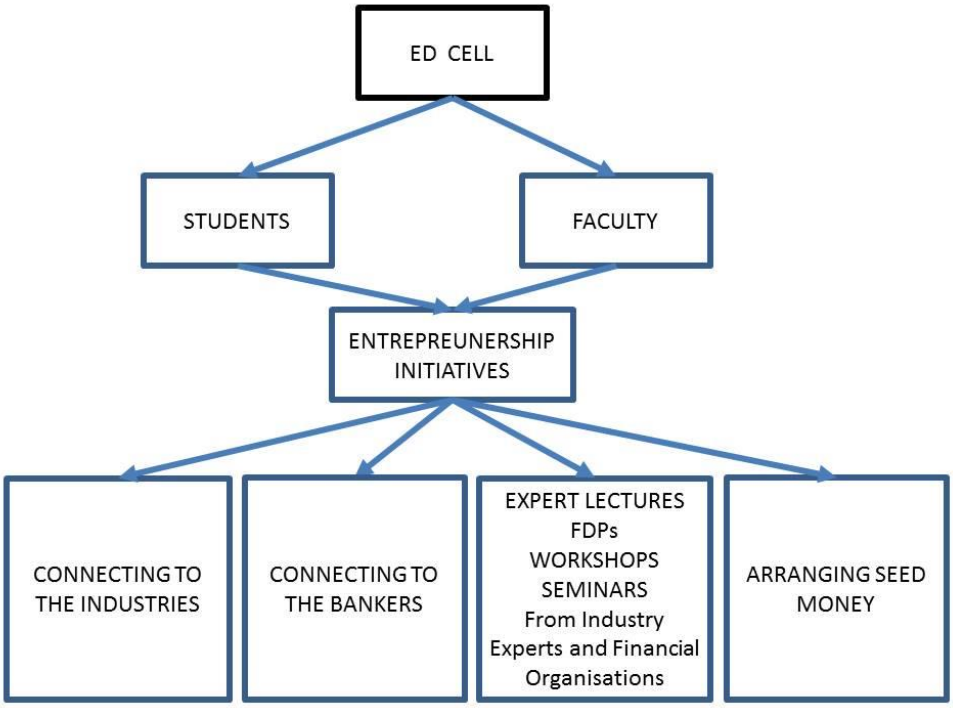


Figure 9.6.1: ED Cell Structure

Connecting to the Industries

- Industry exposure is provided to the students and faculty on a regular basis
- The students are connected to the industries through interactive programs and career guidance.
- The students are encouraged to visit industries and learn about the advanced technology.
- MOUs with industries permit the students to take up industrial training and get hands on experience.

Connecting to the bankers

- The students are connected to the financial organisations through interactive sessions from experts.
- The information on loan approvals with agency systems support is given and the students are motivated.

Guest lectures from financial institutions

- Guest lectures from banking sectors like SBI, even MSME coordinators have been conducted and delivered lectures on funding.
- The guest lectures are conducted on a frequent basis.
- The lectures guide the students and faculty on how to approach various organisations for financial help.
- The experts guide the students in managing the finances while initiating a new start-up idea.

Guest lectures from industry experts

- We regularly and very frequently invite experts from industry to deliver their practical experiences and examples to students
- Each and every department of our college organizes and invite guest lectures from industry on various occasions
- The industrial lectures are a source of information for providing details on the various start up ideas.

- Experts from industries share their experience on the various hurdles that come during a start-up and how to overcome them.

Various Entreprenuership activities organized in the institute are listed in the Table 9.6.2.

Table 9.6.2: Entrepreneurship Activities during the tenure 2017 to 2021

S.No	`Date	Event	Resource Persons	Members Attended
1	02.08.2018 to 06.08.2018	5-Day Entrepreneurship Development Program in collaboration with Vignan University	Dr. D. Bhattacharya, VIT Mr. G. Nageswaran Director MSME Mr. B Kalyan Vardhan, Senior coordinator MSME Mr. K Satish,CEO 9 Solutions	3rd and Final Year Students of all Branches
2	26.11.2019	Entrepreneur Development Program in coordination with Software Technology Parks of India	Mr. P. Dubey, Joint Director STPI Mrs M. Lakshmi, CEO ,PATRA Mr. R.L. Narayana, President ITAIP Mrs. P Neeraja, HR IEMEG	3rd and Final Year Students of all Branches
3	10.02.2020 to 22-02-2020	Two Week National Level Faculty Development Program sponsored by DST and Organised by National Institute for Small and Medium Enterprises	Dr. P Satish Dr. P.S. Ravindra Mrs. Padmaja Dr. Ch. Govinda Rao	Faculty of all branches
4	10.10.2020	One Day EDP Programme on Banks Role in Financing to Budding Entrepreneurs.	Mr. K.S.N.Murthy, General Manager, S.B.I, Zonal Office, Visakhapatnam.	3rd and Final Year Students of all Branches
5	02.05.2021	Online EDP on Digital Marketing for Entrepreneurs.	Mr. Prasanth SD, Founder & MD, KwikBox.	3rd and Final Year Students of all Branches
6	31.05.2021	STPI-Students submitted their ideas and proposals to CHUNAUTI event.	Mr. Dubey Joint Director, STPI.	Students of ECE.

EDP in Coordination with STPI

Online EDP on Digital Marketing

EDP on Financing for Budding Entrepreneurs.

Figure 9.6.2: Entrepreneurship Activities

9.6.2 Entrepreneurship Development Cell facilities:

The facilities of Entrepreneurship Development Cell are mentioned below in Table 9.6.3.

Table 9.6.3: Facilities for ED Cell

S.No	Description	Number
1	Computers	2
2	Printers	2
3	LCD Projectors	2
4	White Board	1
5	Seminar Hall	1

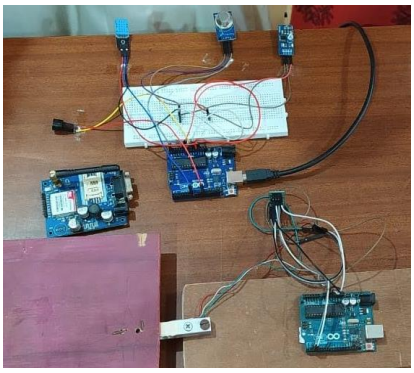
9.6.4 Effectiveness of Entrepreneurship Development Cell

Entrepreneurship Development Cell has conducted listed events to motivate, guide and develop students to create their own ventures. Such start-ups and outcomes of ED Cell were listed below in Table 9.6.4.

Table 9.6.4: List of Entrepreneurs in the tenure 2017-21

S.No	Name of the Student	Branch	Type of Business	Name of the Company and Place

1.	P.Sravani	EEE	Startup	A prototype on Women Safety using Alarm buzzer system using GPS, Visakhapatnam
2	S.Mani Harika			
3.	Majji Swetha	EEE	Start-up	Key Chain Hangers with 3D Printer
4	Gandi Ramya	EEE	Electronic Appliances & Toys	Ramya Enterprises, Visakhapatnam.
5	Kujur Ankita	EEE	Boutique	Ankita Fashions, Visakhapatnam.
6	Pilla Hema	EEE	Start-up	Designed Slates with Multi-CNC machine.
7	Vennela Swetha	EEE	Play School	Happy Kids Play School, Anakapalli.
8	T. Bindu Sai	CSE	Freelancer Business	Bindu Health and Wellness Centre, Visakhapatnam
9	Pasem Harshitha	CSE	Start-up App	V-Aahar
10	Gudupu Aswini	CSE	Freelancer Business	Ashu Creations
11	K.Bhavanshya	CSE	Start-up	Digital Marketing Coding School
12	Krathi Karuna	CSE	Freelancer Software Development	Cliqtick Digital Marketing.
13	Pentakota Mounika	ECE	Dance School	Dance School.
14	D. Dhana Lakshmi	ECE	Pre School	Sunrise Pre School.
15	Y. Sahithi	ECE	Pre School	First Toes Pre School.
16	G.Phani Kumari	ECE	Freelancer	Embedded House Pvt. Ltd.
17	A Alekhya	IT	Dance Academy	Dance Academy
18	G Keerthi			



Dance Academy

Women Safety

V-Aahar **Pre School**

Multi CNC Machine **3D Printer**

Figure 9.6.3: Various Entrepreneurs

9.7. Co-Curricular and Extra-Curricular Activities (10)

As per our vision, institute constantly beliefs to produce not only the knowledgeable students but professionals of all round personality by providing various co-curricular and extracurricular activities. We believe that it helps not only getting placements but also helps them to grow their leadership qualities.

9.7. A. Availability of sports and cultural facilities (3):

Sports provide an invaluable opportunity for our students to interact, keep fit, pursue excellence and work in teams. Our sports facilities are extensive and well-equipped, catering to a wide range of sports. There are indoor game facilities as well as extensive space for outdoor sports.

Table 9.7.1: List of indoor and outdoor game facilities available in the campus

S. No	Name of the sport facility	Quantity	Place of availability

1.	Throw ball nets	07	PD ROOM
2.	Throw balls	09	
3.	Volley ball nets	04	
4.	Volley balls	06	
5.	Volley ball antenna	1 set	
6.	Ball badminton net	01	
7.	Ball badminton rockets	07	
8.	Shuttle nets	04	
9.	Shuttle rockets	48	
10.	Shuttle barrels	10	
11.	Tenni koit nets	07	
12.	Tenni koits	05	
13.	Carrom boards	09	
14.	Carrom board powder	5 tins	
15.	Carom board coins	09 sets	
16	Chess boards	06	
17	Chess board coins	08 sets	
18	Cricket bats	04	
19	Cricket stumps	05 pairs	
20	Cricket balls	07	
21	Kho-kho poles	02 pairs	
22	Shot – put	03	
23	Discuss throw	02	
24	Javelin throw	01	
25	Skipping ropes	08	
26	Weighing machine	01	
27	Stop watch	02	
28	Air pump	01	
29	Measuring tape	01	
30	Marking ropes	03	
31	Table tennis board	01	
32	Table tennis balls	3 boxes	
33	Table tennis net	03	
34	Table tennis rockets	04 pairs	
35	Ground roller	01	

Table 9.7.2: Available list ofsports courts for outdoor games

S.No	List of the courts	Dimensions	Quantity

1.	Throw ball	18.30m X 12.20m	02
2.	Volley ball	18mX9m	02
3.	KHO- KHO	27mX16m	01
4.	Shuttle	13.40mX6.10m	02
5.	Tenni-Koit	12.20m X5.50 m	01
6.	Kabaddi	12m X 8m	01
7.	Cricket pitch	20.12m X 3.05m	01
8.	Running Track	200m	01
9.	Long jump pit	10m X 2.75m	01

Figure 9.7.1: Illustration of available sports courts

Available Cultural Facilities:

A vibrant learning experience is about more than just classroom sessions. Guest lectures, symposia, seminars and conferences expose students to key insights, new ideas and a chance to

engage with peers and experts in discussion and debate.Our 300-seater seminar hall **(68.6" X 47.7")**facilitates this free interplay of ideas. Air conditioned and equipped with modern equipment such as multimedia projectors and high quality sound systems, it has guest lobbies and verandahs, which are ideal venues for conferences and exhibitions. Many dignitaries have graced this imposing edifice.

9.7. B. NCC, NSS and other Clubs (3):

The self- funding ofNational Service Scheme (NSS) unit of **Vignan's Institute of Engineering for Women (VIEW)** is very active in organizing awareness rallies and programs to create awareness among the public on environmental relevant issues. NSS unit of VIEW identifies interested students to conduct social awareness programs in surrounding regions.It also encourages students to learn through service**.**

9.7. B.1 : Details of NSS activities conducted in the campus:

Table: 9.7.3: Consolidated list of events conducted National Service Scheme (NSS)

S. No.	Event	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	NSS	5	13	5	11

Table 9.7.4: List ofNSS activities conducted in CAY (2020-21)

S. No.	Name of the Event	Date of the Event	Guests	No. of Students Attended/ Participated	Outcome	Relevance to POs
1	Protest against "Steel Plant Privatization"	20.04.2021	Mr. JD Lakshmi Narayana, Retired police officer	110	To develop a sense of civic and social responsibility	PO6,PO8 ,PO9
2	Poster presentation on "Choose to Challenge"	16.03.2021	--	55		PO6, PO8,PO10

3	Online Essay Writing Competition on " Swatcchata : Tribute to Mahatma"	3.10.2020	--	47		PO6, PO8, PO10
4	Distribution of food packets to the needy poor people in COVID time	23.09.2020	Mrs.MeenuBhushan, Mahila Police, Gajuwaka	21		PO6,PO8 ,PO9, PO12
5	Health talk on "Impact of COVID-19 on Human Behaviour"	11.07.2020	Mr. S. Ramesh, Associate Professor, Dept. of MBA, VIEW	110		PO6, PO12

Figure 9.7.2: Illustration of social activities highlighted

Table 9.7.5: List of NSS activities conducted in CAY m1 (2019-20)

S. No.	Name of the Event	Date of the Event	Guests	No. of Students Attended/ Participated	Outcome	Relevance to POs
1	Awareness Program On "Personal Hygiene"	14.03.2020	Hindustan Unilever Manager Mrs. Krishna Kumari	160	To engage in created in constructive social action	PO 7,PO 9
2	Stand for the Nation	14.02.2020	Stand for the nation coordinator, Visakhapatnam	200		PO6, PO8, PO9, PO12
3	Awareness Program On 'Consumer Rights And Human Rights	07.02.2020	Consumer Forum Judge Mrs. P. Surya Bhaskaram & State Secretary Human Rights Council Members MVS Murthy, M. Syam	200		PO 8,PO 10

			Prasad			
4	Passport Mela	12.12.2019	Regional Passport Officer NLP Chowdary	832		PO 6
5	Donations To AIDS Effected Child Patients	03.12.2019	---	60		PO 7
6	Essay Writing Competition On "Indian Constitution-Current Challenges And Future"	26.11.2019	----	80		PO 1, PO 6
7	Say No To Plastic	30.09.2019	---	65		PO6,PO7,PO8 ,PO9,PO10
8	Eco-Rally On “Save A Drop”	25.08.2019	---	60		PO6,PO7,PO8 ,PO9,PO10,P O11,PO12
9	Awareness Rally On Mahatma Gandhi Quotes On Independence Day	15.08.2019	-----	150		PO 8
10	Awareness Program On “Cyber Crime”	08.08.2019	Joint Commissioner Of Police Shri K. Prabhakar Garu	150		PO1,PO2
11	150thBirth Day Celebrations Of “Mahatma Gandhi”	31.07.2019	----	30		PO 7,PO 12
12	Poster Presentation And Essay Writing Competition And Craft Exhibition On “Recycling The Waste”	19.07.2019	---	50		PO6,PO7,PO8 ,PO9,PO10
13	Awareness Program On ”Bank Loans”	10.07.2019	ICICI Bank Manager Hemanth Kumar, Kurmannapalem	60		PO 7

Table 9.7.6: List ofNSS Activities Conducted in CAY m2 (2018-19)

S. No.	Name of The Event	Date of the Event	Guests	No. of Students Attended/Participated	Outcome	Relevance to POs
1	The International Yoga Day	21.06.2019	Mr. K. Naresh Kumar, Anakapalle, Visakhapatnam.	45	To work with / among people	PO6,PO7,P O8PO9,PO1 0
2	Blood Donation		Sanjeevani voluntary			PO6,PO7,P

	Camp "World Blood Donor's Day"	14.06.2019	blood bank, Gajuwaka, Visakhapatnam	150		O8PO9,PO10
3	"World Environment Day"	05.06.2019	----	30		PO6,PO7,PO8PO9,PO10
4	Swatch Survekshan	19.01.2019	President, Junior chamber International, Waltair	120		PO6,PO7,PO8,PO9,PO10
5	Sharing of Joy	05.01.2019	Sister Vandana, NirmalaSadan, Gnanapuram	30		PO9

Figure.4. Illustration of NSS activities highlighted

Table 9.7.7: List ofNSS Activities Conducted in CAY m3 (2017-18)

S. No.	Name of The Event	Date of the Event	Guests	No. of Students Attended/ Participated	Outcome	Relevance to POs
1	Blood Donation Camp on "World Blood Donors day"	14.06.2018	JCI President Dr. J Siva Satyanarayana	121	To engage in creative and constructive social action	PO7,PO8,PO9
2	Plantation on 'World Environmental day'	05.06.2018	Social activist Mr. Jitendra, Visakhapatnam	84		PO7
3	Social Enterprise "R3 Project"	04.04.2018	AkshyaPatra Foundation Secretary D. JitaamitraDasa	124		PO 9
4	LLR (Learners License Registration) Mela	15.02.2018	Senior Motor Vehicle Inspector Mr. ButchiRaju	250		PO 9
5	Inspirational Talk	28.10.2017	Dr.YandamuriVeerendranath	164		PO 8
6	Vigilance Awareness Week & Speech On	16.10.2017	Vigilance Officers OfRashtriyaIspat	148		

	"Role Of Youth In Building Healthy Society"		Nigam Ltd., (RINL) Mr. Rajesh Kumar, Mrs. DainyCheriyan			PO 8,PO 10
7	Eco Ganesha	24.08.2017	ParyavaranaMargadarshiVaisakhi organization, Visakhapatnam	251		PO6,PO7,PO8 PO9,PO10,PO 11,PO12
8	Potential Ways To Golden Future By CII, YI Organizations	12.08.2017	Lovyo Foods Chairman Lakshmanan Krishnamurthy	155		PO 9
9	Registrations In Electoral Roll	06.07.2017	------	210		PO 9
10	Health Camp For Faculty	01.07.2017	OMNI RK hospitals, Visakhapatnam	140		PO7,PO8,PO9
11	General Medical Checkup	01.07.2017	Dr. MNV Pallavi, Gynecoogist, OMNI RK Hospitals, Visakhapatnam	180		PO7,PO8,PO9

Figure 9.7.3: Illustrations of various talks under NSS

9.7. B. 2: Students Clubs

For Smooth Conduction of various co-curricular and extra-curricular activities, different students clubs are formed at departmental and institution level as followed:

I. Co-Curricular Activities

Co-curricular activities are attempted alongside with academic studies. Most commonly, outside the normal classrooms co-curricular activities are performed and they augment academic

curriculum and lend a hand for learning by doing. These activities help students to enhance their problem-solving, critical thinking, reasoning, creative thinking, communication, and collaborative abilities. Involvement in any co-curricular activities helps students in emotional development, social skill development, and overall personality development.

By providing the co-curricular activities with various clubs, the students immensely gained rapid advancement in their career.

Following are the names of clubs available in co-curricular activities

A. Academic club
B. Techkrithi club
C. Activity club
D. Navitas club
E. Shristi club

A. ACADEMIC CLUB:

This club enhances the students' knowledge levels towards latest trending technologies through **workshops, seminars and guestlectures** which excel them in their academic projects and crack Technical Interviews.

Table: 9.7.8: List of events conducted by the Department ofComputer Science Engineering (CSE) under academic club

S.No.	Event	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	Workshops	05	11	10	10
2	Guest lectures	07	12	07	05
3	Seminars	07	06	05	05

Table: 9.7.9. List of events conducted by the Department ofElectronics &Communication Engineering (ECE) under academic club

S.No.	Event	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	Workshops	3	9	7	6

2	Guest lectures	1	2	3	5
3	Seminars	-	2	2	5

Table: 9.7.10 :List of events conducted by the Department ofElectrical &Electronics Engineering (EEE) under academic club

S.No.	Event	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	Workshops	1	1	1	1
2	Guest lectures	3	1	4	2
3	Seminars	3	1	1	1

Table: 9.7.11:List of events conducted by the Department of Information Technology (IT) under academic club

S.No.	Event	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	Workshops	2	6	7	4
2	Guest lectures	1	1	3	3
3	Seminars	1	2	2	4

Figure 9.7.5: Illustrations of various workshops, Seminars and Guest Lecture

B.TECHKRITHI CLUB

This club emphasizes student'slogical thinking, coding and communication skills beyond textual knowledge and to establish a relationship between theory and applications of the concept.

Table: 9.7.12. :List of events conducted by the Department of Computer Science Engineering (CSE) under Techkrithi Club

Academic Year			
2020-21	**2019-20**	**2018-19**	**2017-18**
2	7	2	1

C. ACTIVITY CLUB

This club improves student's imagination skills, cognitive skills in a collaborative and communicative way to experience as an individual and teamwork.

Table: 9.7.13: List of events conducted by DepartmentofElectronics and Communication Engineering (ECE) under Activity Club

Academic Year			
2020-21	**2019-20**	**2018-19**	**2017-18**
3	5	7	4

D.NAVITAS CLUB

This club focuses student's demonstration skills which helps them to clear technical and personal rounds in the campus interviews.

Table: 9.7.14: List of events conducted by Department ofElectronics and Communication Engineering (ECE) under Navitas Club

Academic Year			
2020-21	**2019-20**	**2018-19**	**2017-18**
2	1	3	3

E.SHRISTI CLUB

This club motivates the students towards the social values, volunteering skills, energy and money management skills

Table: 9.7.15: List of events conducted by Department ofInformation Technology (IT) under Shristi Club

Academic Year			
2020-21	**2019-20**	**2018-19**	**2017-18**
1	3	1	NIL

II. Extra-Curricular Activities:

Students who involve themselves in extra-curricular activities learn how to commit in a specific thing they get involved in. Extracurricular activities are supremely important in a student's life. Students who engage in extracurricular activities meet new individuals and can enlarge their sphere which is also advantageous in finding better career opportunities. Skills like collaboration, time management, activity management, group leading and many more additional abilities can be enhanced. Students who participate in sports and other group activities possess better leadership skills and learn how to grow relations with each other.

By providing the extra-curricular activities with various clubs, the students immensely gained rapid advancement in their career.

Following are the names of clubs available in the extra-curricular activities:

A. Sports Club
B. Samskrithi Club
C. Rhythm Club
D. Eco Club
E. Health Club

A. Sports Club:

This club enriches student's sports skills which helps them to stay fit also improves their stamina and excel in various zonal, national sports events.

Table 9.7.16: List of sport events conducted at Institute Level under Sports Club

Academic Year			
2020-21	**2019-20**	**2018-19**	**2017-18**
NIL	11	10	10


Figure 9.7.6: Student active Participation in Outdoor Sports

Figure 9.7.7: Winner Teams ofKho-Kho and Throw Ball

B. SAMSKRITHI CLUB

This club develops students critical, analytical thinking skills and to present their ideas in their own way as a teamwork and individual

Table 9.7.17: List of events conducted by Department ofComputer Science Engineering (CSE) under Samskrithi Club

Academic Year			
2020-21	**2019-20**	**2018-19**	**2017-18**
6	5	4	6

C. RHYTHM CLUB

This club cultivates student's self-confidence towards culturals and helps them to develop entrepreneurs in dance, fine arts and event management.

Table: 9.7.18:List of events conducted by Department ofInformation Technology (IT) under Rhythm Club

A.Y	A.Y	A.Y	A.Y
2020-21	2019-20	2018-19	2017-18
1	3	1	1

D. ECO CLUB

This club supports student's responsibility towards environment and its sustainability which helped them stand unique in personal interviews

Table: 9.7.19.: List of events conducted by Department ofInformation Technology (IT) under Eco Club

Academic Year			
2020-21	2019-20	2018-19	2017-18
1	3	1	1

E. HEALTH CLUB

This club nurtures student'shealth concern and personal hygiene.

Table: 9.7.20: List ofevents conducted by Department ofElectrical And Electronics Engineering (EEE) under Health Club

Academic Year			
2020-21	2019-20	2018-19	2017-18
1	1	2	3

9.7.C. Annual Students Activities(4)

Apart from Academics, our students are encouraged frequently to be participated in annual activities like **Yuvatarang, Vista, Association days, Fresher's and Farewell parties**, in order to inculcate leadership skills, social responsibility, finance and project management skills.

WISSENAIRE 2K19

ALOHA 2K19

VISTA 2K18

FAREWELL 2K17

FRESHERS 2K19

Yuvatarang -2K17 Kho-KhoWinners

Figure 9.7.8 Annual student activities

I. STUDENTS INTERNSHIPS

An **internship** is an opportunity offered by an employer to potential employees, called **interns**, to work at a firm for a fixed period of time

Table 9.7.21: Consolidated Sheet of Students Internships from the Institute

S.No.	Branch	Academic Year			
		2020-21	2019-20	2018-19	2017-18
1	CSE	48	83	54	48
2	ECE	2	73	81	69
3	EEE	_	150	108	53
4	IT	14	8	7	7

II. Participation of Students in Co-curricular Activities

(a) DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

Table 9.7.22. Inter-Institution Student Technical Prizes from the

S.No.	Academic Year	Events Participated Within State	Events Participated Outside State	Award/Prize	Students Participated
1	2020-21	1	-	1	3
2	2019-20	12	9	NIL	98
3	2018-19	1	3	1	23
4	2017-18	6	4	4	176

Table9.7.23. Details of Student Technical Prizes for CAY (2020-21)

S. No.	DATE	EVENT	ORGANIZED INSTITUTE	NAME OF THE STUDENT	AWARD/ PRIZED
1	26-02-2021 to 27-02-2021	IDEATHON (Techtatva)	Vignan's Institute of Information Technology(A)	Ch.Parimala K.LahariNivedhini B.Lalitha	1st Prize

Table 9.7.24. Details of Student Technical Prizes for CAY m2 (2018-19)

S. No.	DATE	EVENT	ORGANIZED INSTITUTE	NAME OF THE STUDENT	AWARD/ PRIZED
1	11-02-2019 to 12-02-2019	Eclectique 2K19 Project Expo (IoT Based Industrial Safety)	JNTU, VIZIANAGARAM	K. Sai Komali M.Deekshitha M.Jyothirmayee	3rd Prize

Table9.7.25 : Details of Student Technical Prizes for CAY m3 (2017-18)

S. No.	DATE	EVENT	ORGANIZED INSTITUTE	NAME OF THE STUDENT	AWARD/ PRIZED
1	07-10-2017	Innovation Fair (Project Expo)	JNTU, KAKINADA	1. P.ChandanaSravani, 2. V TirumalaGayatri, 3. S Jyothi, 4. S Prasanna Lakshmi	1st prize
2	23-02-2018	Poster Presentation (Sensors and Actuators)	ANDHRA UNIVERSITY	1. SushmitaMondal 2. R.Ramya Sri 3. T.SaiHarshita	1st prize

(b) DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (CSE)

Table 9.7.26: Inter-Institution Student Technical Prizes

S.No.	Academic Year	Students Awarded
1	2020-21	NIL
2	2019-20	16
3	2018-19	11
4	2017-18	11

Table 9.7.27: Details of Student Technical Prizes for CAY (2019-20)

S. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards
1.	P. Sahithi	03.01.2020	Introduction of Computer Vision	IIT, Madras	Merit certificate
2.	K.HemaLatha	07.09.2019 to 08.09.2019	Workshop on Data Science	IIT Hyderabad	Merit certificate
3.	P. Mounika	20.12.2019 to 21.12.2019	Workshop on Web development.	Andhra University	Merit certificate
4.	K. Sahitya	23.12.2019	Hack AI on Health	Medi valley, World Incubation Hub	4thPrize
5.	K. Sahitya	05.01.2020 to 06.01.2020	Technical Content Writer	Girls Script Foundation	Merit
6.	G. Prashipta	Jun.19	Cyber security Internship	Tocmoc Solutions, Hyderabad	Certificate of Appreciation
7.	M.Annapurna	29.07.2019	Google IT	VIIT, VIEW, Visakhapatnam	1st Prize
8.	P. Mounika	29.07.2019	Google IT	VIIT, VIEW, Visakhapatnam	2nd Prize
9.	K. Hema Sai Harsitha M.S.Bhavana K. Thanuja	21.09.2019 to 23.09.2019	Idea Presentation	VIIT, VIEW, Visakhapatnam	1st Prize
10.	K. Reshma ChAgarwalHarshitha	21.09.2019 to 23.09.2019	Idea Presentation	VIIT, VIEW, Visakhapatnam	2nd Prize
11.	G. Harshitha	09.02.2020	Throwball	VIIT, VIEW, Visakhapatnam	Runner
12.	V.Kusumanjali	06.01.2020	Online Art Competition	Vizag Hub	Merit
13.	K.HemaLatha	07.04.2020	Jobs And Career in Cyber Security	IIIT Allahabad	Merit
14.	B.Anusha	12.02.2020	Ninja Hire 2.0 Senior	Coding Ninjas	Merit
15.	V.D Lakshmi	12.02.2020	Ninja Hire 2.0	Coding Ninjas	Merit

	Rajeswari		Senior		
16.	Md. Vahazarunnisa	21.05.2020	Online Mathematics Quiz	Santhiram Engineering College	Merit

Table 9.7.28: Details of Student Technical Prizes for CAY m2 (2018-19)

S. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards/ Rewards
1.	B Charishma	02.03.2019 to 03.03.2019	Workshop on IoT	IIT Hyderabad	Merit Certificate
2.	G.Hyndavi	20.05.2019 to 20.06.2019	Internship On Cyber Security and Ethical Hacking	Tocmoc Solutions	Certificate of Appreciation
3.	A Sri Rekha	17.09.2018 to 18.09.2018	Cyber Security and Malware Analysis	JNTU VZM	Merit Certificate
4.	HarshithaP Deepika E B Niharika Sathvika R A Vyshnavi	26.08.2018	Pixel Run Appathon	NASSACOM10000, Symbiosis Technologies	2nd Prize
5.	B. Bhanusree	26.09.2018 to 27.09.2018	HACKTHON 2019	INNOVA Soluations	2nd Prize
6.	D.Vandana	06.12.2018 to 08.12.2018	Hackarena	VIIT	1st Prize
7.	P. Praveena P. ManjuP. Vasudha	14.09.2018 to 15.09.2018	Poster Presentation	VIIT	2nd Prize
8.	K Hema Sri J.Harshitha M. Bhavana	14.09.2018 to 15.09.2018	Poster Presentation	VIIT	1st Prize
9.	E. Deepika A. Vaishnavi D. V. Sri B. Niharika G. Satwika P. Harsitha	14.09.2018 to 15.09.2018	Live Models. Parna App	VIIT	3rd Prize
10.	G.K.Sowmya	11.08.2018 to 16.08.2018	Workshop on Android	VIEW	Merit Certificate
11.	S. Nirmala	15.02.2019	Tennikoit	VIIT, VIEW	2nd Prize

Table 9.7.29: Details of Student Technical Prizes for CAY m3 (2017-18)

S. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards/ Rewards
1.	R. Sathvika	23.5.2018 to 30.5.2018	Machine Learning	Bits Pilani, Hyderabad	Merit Certificate
2.	Ch. S.Bharathi	17.02.2018 to 18.02.2018	Artificial Intelligence	JNTU Kakinada	Merit Certificate
3.	M. Srivalli G. Vysali D. Sirisha	17.02.2018	Innovative ideas	JNTUK	1st Prize
4.	D. Geethika. M. Keerthi	17.02.2018	Innovative ideas	JNTUK	2nd Prize
5.	S Shusmasri T Sri Puja	14.09.2017 to 15.09.2017	Smart Ideas. acknowledgement of email	VIIT	2nd Prize
6.	D. S. M. Charishma	14.09.2017 to 15.09.2017	Live Model- A practical implementation of wireless sensor network based on smart phone safetysystem	VIIT	1st Prize
7.	M. Kavitha P. Sai Renuka S. Shushma S M Navya	14.09.2017 to 15.09.2017	Live Model- A IR remote controlled Home Automation using Aurdino	VIIT	2nd Prize
8.	M. Sindhu	07.01.2017 to 08.01.2017	Tug of War	VIIT	1st prize
9.	M. Sindhu	09.07.2017	VISTA 2K17	VIIT	Academic Excellence Award
10.	B. Mounika J. Sai Sirisha	12.03.2018to 14.03.2018	Electrothon 2K18	KLU	Zonal level 1stprize
11.	SindhuMallidi	15.07.2017	VISTA 2K18	VIIT	Academic Excellence Award

(c) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

Table 9.7.30 :Inter-institution events information Electrical and Electronics Engineering

S. No	Academic Year	Students Participants
1	2020-21	NIL
2	2019-20	15
3	2018-19	1
4	2017-18	1

Table 9.7.31: Details of Student Participation in CAY m1 (2019-20), CAY m2 (2018-19) ,CAY m3 (2017-18)

Sl. No	Date	Event	Venue	Name of the student	No of participants
1	15-02-20	Six Sense Robot	JNTUK, Vizianagaram	B Sandhya Rani	15
2				B Usha Sri	
3				C Bhagya Lakshmi	
4				G Akhila	
5				G Douluri	
6				J Krishna Jahnavi	
7				J Navya Swathi	
8				K Priyanka	
9				K Yamini Mani	
10				M Poojitha	
11				M Deepthisree	
12				N Divya	
13				Sravani	
14				N Navya	
15				N Subha Sri	
16	07-02-19	Ethical Hacking and Cyber Security	ANITS, Visakhapatnam	P. Laksmi	1
17	07-01-17	NEETHI 2K17	GIITS	A Pushpa	1

(d) DEPARTMENT OF INFORMATION TECHNOLOGY (IT)

Table 9.7.32: Inter-institution events information technology

S. No.	Academic Year	Students Participants
1	2020-21	1
2	2019-20	18
3	2018-19	7
4	2017-18	5

Table 9.7.33: Details of student participation in CAY (2020-21)

S. No.	Date	Student Name	Event	Prize Awarded	Venue/ Organised
1	25-08-2019	D.Gowthami	6th Senior Inter District (Men & Women 0) Netball Championship 2020-21	Merit	Vijayawada, Krishna District,

Table 9.7.34: Details of student participation in CAY m1 (2019-20)

S. No.	Date	Student Name	Event	Prize Awarded	Venue
1	25-08-2019	GajulaYasawani Gandi Priyanka	Raspberry Pi3 LEVEL -1	Participation	HMI Engineering Services
2	29-08-2019	V kusumaRavali	200 mts Track	Runner	Vizag
3	16-11-2019 to 18-11-2019	D Gowthami	A.P CM CUP State Level Net ball Tournament	Participated In Women Category	District Sports Authority, East Godavari
4	11-01-2020 to 12-01-2020	D.Gowthami	Throw ball	Runners	VIIT
5		K.Navya			
6		G.Meghana			
7		V.Kreethi Prasanna			
8		V.Sreevalli			
9		P.Divya			
10		K.Shanmuki			
11		V.Sravani			
12		B.Sreevalli			
13		K.Harini			
14		G.KreethiSree Reddy			
16		G.Sirisha			
17	03-01-2020	V KusumaRavali	Title of book “AMMA OKA ADBUTHAM,	Book Published	VIEW
18	17-01-2020 To 19-01-2020	D Gowthami	5th Senior inter District (men & Women Net Ball Championship 2019-20	Merit 3rd Position	Prakasam District, Ongole

Table 9.7.35: Details of student participation in CAY m2 (2018-19)

S .No.	Date	Student Name	Event	Prize Awarded	Venue
1.	15-02-2019 to 16-02-2019	N SudhaMounika	Intra Mural Competition KHO-KHO	Participation	Vignan's University
2.	15-02-2019 To 16-02-2019	G Gayatri	Intra Mural Competition	Participation (Kho-Kho)	VIZAG, Beach ROAD
3.	03-03-2019	N Vireesha	Machine Learning workshop	Participation	JNTUK-KAKINADA
4.	03-03-2019	.M Sai Aishwarya	Machine Learning workshop	Participation	JNTUK-KAKINADA
5.	03-03-2019	.N Vireesha	Machine Learning workshop	Participation	JNTUK-KAKINADA
6.	03-03-2019	SaidharaniAchanta	Machine Learning workshop	Participation	JNTUK-KAKINADA
7.	03-03-2019	A Sai Dharani	Machine Learning workshop	Participation	JNTUK-KAKINADA

Table 9.7.36: Details of student participation in CAY m3 (2017-18)

S. No.	Date	Student Name	Event	Prize Awarded	Venue
1	02-03-2018 to 4-03-2018	B Revathi	Central Zone For Women, Kho-Kho Team	1st Position	Aditya Engineering College, Surampalem, Kakinada, E.G(Dist)
2	02-03-2018 to 4-03-2018	P Lalitha	Central Zone for Women, Throw Ball Team	3rd Position	Aditya Engineering College, Surampalem, Kakinada, E.G(Dist)
3	30-03-2018 To 31-03-2018	K Geethika	Smart indiaHackathon	Participant	VIIT
4	10-12-2018	P Poornima Devi	Walk for Future Smiles	Participant	Aasya Health FundationVizag
5	10-12-2018	Nagi Reddy Vireesha	Walk for Future Smiles	Participant	Aasya Health FundationVizag

Figure 9.7.9: Illustrations of student active participation in live models, PPT presentation, model expo's and cultural events

Criterion 10	Governance, Institutional Support and Financial Resources	120 M

10.1. ORGANIZATION, GOVERNANCE AND TRANSPARENCY (40)

10.1.1. State the Vision and Mission of the Institute (5)

(Vision statement typically indicates aspirations and Mission statement states the broad approach to achieve aspirations)

VISION OF THE INSTITUTE

To be a leading institution of women empowerment producing internationally accepted professionals with psychological strength, emotional balance and ethical values.

MISSION OF THE INSTITUTE

M1: To empower women engineers through innovative teaching learning practices.

M2: To encourage higher education and research with well-equipped laboratories.

M3: To promote entrepreneurship through creativity and innovation.

M4: To promote environmental sustainability and inculcate ethical, emotional and social consciousness.

Appropriateness/Relevance of the Statements:

There has been an emerging need in the local society for providing an exclusive time and space for girls in technical education. Addressing this socio and economic concerns of the society, The Institute is established with total women empowerment as its chief motto. The aim is to provide competent women technical power keeping the demands of the industry along with providing a robust economic boost to the family in the form of a technically educated and trained woman professional. Apart from these aims the college has kept its vision on simultaneously equipping the girl students physically fit, psychologically strong to face the challenges in the society.

The activities are planned in such a way that the girl gets transformed into a competent and complete woman with technical expertise, self-reliance, psychological strength, emotional balance, ethical values and social consciousness. Setting highest ethical standards at all aspects of college activity the girl is imbued with right kind of moral attitude. Overall, the Vision and Mission statements are to transform the girl into a complete woman through the comprehensive cycle of change at the Institute.

10.1.2. Governing Body, Administrative Setup, Functions of Various Bodies, Service Rules, Procedures, Recruitment and Promotional Policies (10)

(List the governing, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; and attendance therein, in a tabular form. A few sample minutes of the meetings and action-taken reports should be annexed. The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students)

10.1.2 (A) GOVERNING BODY

The institution has a well defined and structured governance system headed by the governing body which is an apex committee that oversees the overall development and continuous growth of the institution in lines with the established vision. The Governing body is comprised of 15 eminent people from industry and academia to bring in the necessary balance. The term of the members, except the ex-officio member, shall be three years.

Functions of Governing Body:

1. To monitor the academic, student, faculty development and other related activities of the college.
2. To approve the recommendations of the Staff Selection Committee.
3. To consider for implementation the important communications, policy decisions received from the University, Government, AICTE, etc.
4. To consider the recommendations of the Planning and Monitoring board of the college from implementation.
5. To prepare and approve the annual budget of the college.

Frequency of Meeting and Quorum:

The Governing Council shall meet at least twice a year. The quorum for the meeting shall be 2/3 of the total members of the Governing Council.

Composition of the Governing Body:

Table 10.1 Composition of the Governing Body

Sl. No.	Name of the Person	Designation	Category	Nature of Appointment
1	Dr. B.Subba Rao Programe Director, SAMEER-Centre for Electromagnetic Environmental Effects, Ministry of E&IT, Visakhapatnam	Chairman	Trust/Management	Trust/ Management as per the constitution of By-Laws with the chairman or president or Director as the chair person (5 Members)
2	Dr. L. Rathaiah President & Correspondent, Lavu Educational Society, Vignan Group	Member	Trust/Management	
3	Sri N.Srikanth Executive Director, Vignan Group of Educational Institutions, Visakhapatnam	Member	Trust/Management	
4	Prof.A.Sesha Rao Academic Director, Vignan's Institute of Engineering for Women, Visakhapatnam	Member	Trust/Management	
5	Dr.Archana Sharma Outstanding Scientist Head, PP & EMD, BARC, Mumbai.	Member	Trust/Management	
6	Dr. P. V. G. D. Prasad Reddy Former Registrar, Professor, Department of Computer Science & Systems Engineering, Andhra University, Visakhapatnam	Member	Academician	Neighboring University
7	Mr.Appa Mogali Program Director - Talent Management Solutions & IBM Vizag Site Leader	Member	Industrialist	Nominated by Management
8	Dr.Rishi Verma Scientist-G, PP & EMD, PEB-1, Bhabha Atomic Research Centre (BARC), Gandivanipalem, Atchutapuram (V), Visakhapatnam.	Member	Industrialist	Nominated by Management
9	Mr.Suresh Kumar Tankala Lead Consultant, Wipro Limited, Visakhapatnam	Member	Industrialist	Nominated by Management

10	Dr.P.Aruna Kumari Asst. Professor, Dept. of Computer Science & Engineering UCE, JNTUK, Vizianagaram	Member	University (JNTUK) Nominee	Nominated by the University
11	Mr. Bala Murugan South Regional Officer, AICTE	Member	AICTE Nominee	Nominated by the AICTE
12	Mr.B.K.Surya Prakash Principal, Govt. Polytechnic College, Anakapalli, VSKP	Member	State Government Nominee	Nominated by the State Government
13	Dr.J.Sudhakar Principal & Professor, Dept. of ECE, VIEW, Visakhapatnam	Member Secretary	Principal	Ex-officio
14	Dr.K.Durga Syam Prasad Professor & HoD, Dept. of EEE, VIEW, Visakhapatnam	Member	Faculty Representative	Nominated by the Principal

Details of Governing Council Meetings

Academic Year	No. of Meetings	Date of Meeting held	No. of Members attended
2017-18	2	06.06.2017	12
		22.12.2017	11
2018-19	2	06.09.2018	11
		13.04.2019	12
2019-20	2	12.11.2019	12
		03.04.2020	Cancelled due to Covid-19
2020-21	2	06.02.2021	11
		29.05.2021	Cancelled due to 2nd wave of Covid

Minutes of the meetings and action-taken reports:

Minutes of the 19th meeting of Board of Governors

Vignan's Institute of Engineering for Women

Held on June 6, 2017 at 10.00 a.m. at Board Room, VIEW, Visakhapatnam

Members Present

1	Dr. L. Rathaiah	Vice-Chairman
2	Padma Bhushan Sri.Dr. Y Lakshmi Prasad	Member
3	Sri K Pavan Krishna	Member
4	Dr. V. Vizia Saradhi	Member
5	Sri.Venkata Rayulu Bonam	Member
6	Prof. P. V. G. D. Prasad Reddy	Member
7	Mr.Srikanth Nandigam	Member
8	Dr. B.Subba Rao	Member
9	Dr. G.Madhavi	Member
10	Mr.B.K.Surya Prakash	Member
11	Dr.J.Sudhakar	Member Secretary
12	Prof.A.Sesha Rao	Member

The following members have requested for leave of absence expressed their inability to attend meeting.

1 Dr. CD Malleswar

2 Sri. R.Bala Murugan

At the outset Dr.L.Rathaiah, Vice-Chairman welcomed all the members of Governing Council to the Meeting. He expressed confidence in getting the cooperation and support from other members of the Governing Body in effective discharge of his duties. He gave the opening remarks and spoke about important developments that took place in the College, construction of new academic block, New Canteen, placement record, overall results of the college and appreciate the faculty members for their efforts in achieving the excellent results in UG and PG courses.

The Vice-Chairman requested **Principal** to present the agenda notes for discussion. Principal welcomed Sri.B.K.Surya Prakash, who has been recently nominated by the State Government as Govt. nominee to the Governing Body.

The following items are discussed and the corresponding resolutions are adopted:

Item-1 Confirmation of the minutes of the earlier meeting held on 05.03.2016

The minutes of the meeting of the Governing Body held on 05.03.2016 were circulated to all the members for their comments. As there were no comments, it was declared that the minutes were confirmed.

Resolution No. VIEW/GBM/4/2017/1

The Governing Body resolved to approve the minutes of the meeting held on 5th of March, 2016.

Item-2 Report by the Principal on the progress of the College during the Academic Year 2016-17

Principal gave a Power point presentation on various activities of the college since the last Governing Body meeting. Copy of the same was perused by the members and approved.

Resolution No. VIEW/GBM/4/2017/2.1

The Governing Body resolved to express its satisfaction upon the admissions into B.Tech., and M.B.A. for the academic year 2016-17 under the prevailing conditions, and suggested to take necessary steps for improvement of admissions in M.Tech.

Resolution No. VIEW/GBM/4/2017/2.2

The Governing Body reviewed the results of UG and PG programmes and expressed its happiness over the performance.

Resolution No. VIEW/GBM/4/2017/2.3

The Governing Body noted and placed on record its happiness about the University First Place in JNTUK first year results with 71.15 per cent. The Governing Body is pleased to note that 94 per cent of 365 students are achieved first class with distinction.

Resolution No. VIEW/GBM/4/2017/2.4

The Governing Body is pleased to note that 273 out of 315 eligible students are placed as on date in different organizations during the academic year 2016-17.The Governing Body noted with great satisfaction over the performance of two students excelled in Microsoft with annual package of 9.78Lakhs and one student excelled in Juspay with annual package of 12Lakhs.

Resolution No. VIEW/GBM/4/2017/2.5

The Governing Body is overwhelmed with happiness for achieving 3 Prathibha Awards from JNTUK which were presented in the academic year 2016-17for the achievement of the academic year 2015-16

Resolution No. VIEW/GBM/4/2017/2.6

The Governing Body recognized the efforts of the faculty in getting research projects worth Rs.32.58 lakhs from Science and Engineering Research Board (SERB), Department of Science and Technology (DST)and expressed happiness over the progressive mind-set of the faculty.

Resolution No. VIEW/GBM/4/2017/2.7

The Governing Body noted with pleasure that 4 faculty are awarded Ph.D. It is also noted that 7 faculty members submitted their Ph.D. theses and 18 faculty members pursuing Ph.D. The governing Body congratulated their effort and promised continued support to faculty in such efforts.

Resolution No. VIEW/GBM/4/2017/2.8

The Governing Body while expressing its satisfaction about the publications by the faculty suggested the administration to encourage the faculty for more publications in reputed journals and conferences.

Resolution No. VIEW/GBM/4/2017/2.9

I. The Governing Body complimented the staff for conducting Training Programmes, Workshops etc. for faculty and students.
II. The Governing Body noted that nearly 30 faculty of the College attended short-term courses, training programmes, workshops, etc. organized by other Institutions which include IIITs/NITs/IITs.

Resolution No. VIEW/GBM/4/2017/2.10

The Governing Body expressed its happiness about revision of pay structure of faculty as per the recommendations of 6th Pay Commission of AICTE.

Resolution No. VIEW/GBM/4/2017/2.11

The governing Body expressed its satisfaction that the students are actively participating in co-curricular, sports, social, ethical, cultural and other activities. Also expressed their happiness for achieving first place in JNTUK Central Zone Kho-Kho completion.

Resolution No. VIEW/GBM/4/2017/2.12

The Governing Body was elated to know that a number of distinguished personalities visited the College and made delightful comments about the College.

Item-3 Ratification of selected faculty and approval for fresh recruitment.

A report on faculty selections made and requirement of faculty for the academic year 2016-17 is circulated to the members of the Governing Body. After perusal of the report by the members, the following resolutions are made:

Resolution No. VIEW/GBM/4/2017/3.1

i. The Governing Body noted with satisfaction that the services of 84 existing faculty are ratified, 5 faculty are selected for higher position and 12 new faculty are selected through the interviews conducted by JNTU-Kakinada.

ii. The Governing Body resolved to convey it's thanks to the JNT University-Kakinada for arranging faculty selections/ratification of services of existing faculty

Resolution No. VIEW/GBM/4/2017/3.2

The Governing Body noted that18 new faculty joined during this period through University selections and College level selections.

Resolution No. VIEW/GBM/4/2017/3.3

The Governing Body authorized the Chairman, Governing Body to recruit the additional faculty required.

Item-4 Income and expenditure status for the financial year 2016-17

The Principal sought permission from the members of the Governing Body to circulate the income and expenditure for the financial year 2016-17 later as the accounts are to be finalized.

Resolution No. VIEW/GBM/4/2017/4.1

The Governing Body resolved to permit the Principal to circulate the income and expenditure under autonomous status for the financial year 2016-17 later as the accounts are to be finalized.

Item-5 Budget Allocation for the financial year 2017-18

The proposed budget for the financial year 2017-18 as prepared by the Finance Committee is circulated to the members.

Resolution No. VIEW/GBM/4/2017/5.1

The Governing Body approved the proposed budget for the Academic year 2017-18 as prepared by the Finance Committee. The allocation of Budget is:

Institutional Level: 124,225,000/-

Department Lever: **ECE**: Rs.31,070,000/-; **CSE**: Rs.29,488,000/-; **EEE**: Rs.14,847,000/-; **IT:** Rs.6,356,000/-; **ME**: Rs.68,79,000/-; **BS&H**: Rs.27,686,000/-; **MBA**: Rs.78,99,000/-; **Library**: Rs. 9,50,000/-

Resolution No. VIEW/GBM/4/2017/5.2

The Governing Body approved the proposed budget for the Academic year 2017-18 as prepared by the Finance Committee.

Item-6 Proposals for the Approval of Governing Body

Resolution No. VIEW/GBM/4/2017/6.1

The Governing Body resolved to approved the proposal of NAAC Accreditation application process followed by permanent affiliation and 2(f) and 12(b) and suggested to to take necessary steps to apply for NAAC Accreditation.

Resolution No. VIEW/GBM/4/2017/6.2

The Governing Body resolved to approved the proposal of Recruitment of Staff with Ph.D to maintain at least two doctorates in each Department.

Resolution No. VIEW/GBM/4/2017/6.3

Approval is accorded for Introduction of Merit Scholarship Scheme to meritorious students of outstanding performance.

Resolution No. VIEW/GBM/4/2017/6.4

The Governing Body approved the proposal of Implementation of R&D policy To create a conducive platform for encouraging the faculty to undertake cutting-edge research and to produce quality output.

Resolution No. VIEW/GBM/4/2017/6.5

Approval is accorded for adding the following amendments in Leave Policy from the academic year 2017-18 to all permanent employees.

a) Medical leaves
b) Paternity leaves
c) Special casual leave

Resolution No. VIEW/GBM/4/2017/6.6

The Governing Body approved the proposal of the following infrastructure additions for the academic year 2017-18 and approved the required funds for:

a) Renovations to Seminar Hall
b) Completion of Construction of a Canteen building
c) Construction of Open Auditorium with sponsorship

Resolution No. VIEW/GBM/4/2017/6.7

Approval is accorded to Organise International Conference on "**Mathematical Applications in Computing and Statistics"** by department of Basic Science and Humanities in the academic year 2017-18 and approved the required funds.

Resolution No. VIEW/GBM/4/2017/6.8

Approval is accorded to finance committee, non statutory committees i.e. Planning and Evaluation Committee (PEC), Grievance appeal Committee (GAC), Examination Committee (EC), Admission Committee (AC), Library Committee (LC), Student Welfare Committee (SWC), Extra-curricular Activities Committee (ECAC), Academic Audit Committee (AAC) and other committees i.e.College Management Committee (CMC), Policy Perceptive Committee (PPC), College Development Committee (CDC), PG-Committee (PGC), UG Committee (UGC), Department Development Committee (DDC), Hostel Management Committee (HMC), Anti-Ragging Committee (ARC), Purchase Committee (PC), Research Committee (RC), Training & Placement Committee (T&PC), Faculty Recruitment Committee (FRC) and Women Protection/Empowerment Committee (WPEC).

Minutes of the 20th meeting of Board of Governors

Vignan's Institute of Engineering for Women

Held on **December 22, 2017** at 10.00 a.m. at Board Room, VIEW, Visakhapatnam

Members Present

1	Dr. L. Rathaiah	Vice-Chairman
2	Padma Bhushan Sri.Dr. Y Lakshmi Prasad	Member
3	Sri K Pavan Krishna	Member
4	Sri.VenkataRayuluBonam	Member
5	Prof. P. V. G. D. Prasad Reddy	Member
6	Mr.SrikanthNandigam	Member
7	Dr. B.Subba Rao	Member
8	Dr. G.Madhavi	Member
9	Mr.B.K.Surya Prakash	Member
10	Dr.J.Sudhakar	Member Secretary
11	Prof.A.Sesha Rao	Member

The following members have requested for leave of absence expressed their inability to attend meeting.

1 Dr. CD Malleswar

2 Sri. R.Bala Murugan

At the outset Dr.L.Rathaiah, Vice-Chairman welcomed all the members of Governing Council to the Meeting. He expressed confidence in getting the cooperation and support from other members of the Governing Body in effective discharge of his duties.

The Vice-Chairman requested **Principal** to present the agenda notes for discussion.

Principal welcomed all the members of Governing Council to the Meeting and convey his gratitude for attending the meeting.

The following items are discussed and the corresponding resolutions are adopted:

Item-1 Confirmation of the minutes of the earlier meeting held on 06.06.2017

The minutes of the meeting of the Governing Body held on 06.06.2017 were circulated to all the members for their comments. As there were no comments, it was declared that the minutes were confirmed.

Item-2 Report by the Principal on the progress of the College during the Academic Year 2017-18 (Upto I Semester)

Resolution No. VIEW/GBM/4/2017(2)/2.1

The Governing Body resolved to express its satisfaction upon the admissions into B.Tech., and M.B.A. for the academic year 2017-18 under the prevailing conditions, and suggested to take necessary steps for improvement of admissions in M.Tech.

Resolution No. VIEW/GBM/4/2017(2)/2.2

The Governing body complimented about the admission for the academic year 2017-18 recorded as 80.3% of total intake where as in the academic year 2016-17 it was 78.9%.

Resolution No. VIEW/GBM/4/2017(2)/2.3

The Governing body appreciated for achieving 97.24% in B.Tech IV Year for the AY 2016-17.

Resolution No. VIEW/GBM/4/2017(2)/2.4

The Governing Body recognized the efforts of the faculty for publishing more than 40 papers in reputed journals, out of which more than 20 papers are Scopus cited & H-indexed.

Resolution No. VIEW/GBM/4/2017(2)/2.5

The Governing Body expressed its happiness about revision of pay structure and increments to staff as per the recommendations of 6th Pay Commission of AICTE.

Resolution No. VIEW/GBM/4/2017/2.6

The governing Body expressed its satisfaction that the students are actively participating in co-curricular, sports, social, ethical, cultural and other activities.

Item-3 Ratification of selected faculty and approval for fresh recruitment.

Resolution No. VIEW/GBM/4/2017(2)/3.1

The Governing Body is overwhelmed with happiness for about 71% of faculty were ratified by JNTUK till date.

Resolution No. VIEW/GBM/4/2017/3.2

The Governing Body resolved to convey its thanks to the JNT University-Kakinada for arranging faculty selections/ratification of services of existing faculty

Item-4 Proposals for the Approval of Governing Body

Resolution No. VIEW/GBM/4/2017(2)/4.1

The Governing Body resolved to approved the proposal of NAAC Accreditation application process and suggested to to take necessary steps to apply for NAAC Accreditation.

Resolution No. VIEW/GBM/4/2017(2)/4.2

Approval is accorded for Introduction of Means Scholarship Scheme to Below Poverty Line (BPL) students to give financial support.

Resolution No. VIEW/GBM/4/2017(2)/4.3

The Governing Body approved the proposal of the following infrastructure additions for the academic year 2017-18 and approved the required funds for:

a) Renovations to Seminar Hall
b) Completion of Construction of a Canteen building
c) Construction of Open Auditorium with sponsorship

Resolution No. VIEW/GBM/4/2017/4.4

Approval is accorded to plan for construction of women hostel in Campus and arch at main road, Portico at main entrance.

Resolution No. VIEW/GBM/4/2017/4.5

4.5.1 Approval is accorded for applying 2(f) and 12(b) status through an indemnity bond and it is resolved that every amount of grant that will be given by the commission to the college shall when received by the college solely be used for the benefit and purposes of the college in accordance with the terms and conditions of the grant and not for any other purpose or any other institution.

4.5.2 The Institute shall furnish to the commission the balance sheet of the Institution every year along with the annual audited accounts of the college.

4.5.2 The institute shall fulfil any other terms and condition laid down in indemnity bond.

Resolution No. VIEW/GBM/4/2017/4.6

Approved is accorded to recruit Doctoral staff in accordance with the increase in student intake in ECE & CSE.

Resolution No. VIEW/GBM/4/2017/4.7

Approval is accorded to implement Medical Leaves, Paternity Leaves and Special Casual Leaves and R&D incentives as per the R&D policy.

Minutes of the 21st meeting of Board of Governors

Vignan's Institute of Engineering for Women

Held on September 6, 2018 at 10.00 a.m. at Board Room, VIEW, Visakhapatnam

Members Present

1	Dr. CD Malleswar	Chairman
2	Dr. L. Rathaiah	Vice-Chairman
3	Sri K Pavan Krishna	Member
4	Sri.Venkata Rayulu Bonam	Member
5	Prof. P. V. G. D. Prasad Reddy	Member
6	Mr.Srikanth Nandigam	Member
7	Dr. B.Subba Rao	Member
8	Smt.P.Aruna Kumari	Member
9	Mr.B.K.Surya Prakash	Member
10	Dr.J.Sudhakar	Member Secretary
11	Prof.A.Sesha Rao	Member

The following members have requested for leave of absence expressed their inability to attend meeting.

S.No.	Name of the person	Designation
1	Padma Bhushan Sri. Dr. Y Lakshmi Prasad	Member
2	Sri. R.Bala Murugan	Member
3	Dr. V. Vizia Saradhi	Member

The meeting was initiated with the welcome note by Chairman of Governing Body of VIEW, Dr CD Malleswar. He expressed confidence in getting the cooperation and support from other members of the Governing Body in effective discharge of his duties. He gave the opening remarks by introducing new JNTUK nominee Smt.P.Aruna Kumari, Asst. Professor, Dept. of CSE, UCE, JNTUK, Vizianagaram and spoke about important developments that took place in the College, placement record, overall results of the college and appreciate the faculty members for their efforts in achieving the excellent results in UG and PG courses.

The Chairman requested Principal **Dr.J.Sudhakar** to present the agenda notes for discussion. Principal welcomed **Smt.P.Aruna Kumari,** who has been recently nominated by the JNT University, Kakinada as University nominee to the Governing Body.

The following items are discussed and the corresponding resolutions are adopted:

Item-1 Confirmation of the minutes of the earlier meeting held on 22.12.2017

The minutes of the meeting of the Governing Body held on 22.12.2017 were circulated to all the members for their comments. As there were no comments, it was declared that the minutes were confirmed.

Resolution No. VIEW/GBM/4/2018/1

The Governing Body resolved to approve the minutes of the meeting held on 22nd December 2017. Governing Body recommended the institute in the previous meeting to undertake the following:

1. Apply for NAAC Accreditation followed by permanent affiliation and 2(f) and 12(b)
2. Recruitment of Staff with Ph.D
3. Approved to Introduce of Means Scholarship Scheme and release notification in the month of January 2018.
4. Information and Communication Technology (*ICT*) Class Rooms
5. Approved for Renovations to Seminar Hall, Completion of Construction of a Canteen building Approved to Change the transformer and conversation from LT to HT with 400KVA

Item-2 Report by the Principal on the progress of the College during the Academic Year 2017-18

Principal gave a Power point presentation on various activities of the college since the last Governing Body meeting. Copy of the same was perused by the members and approved.

Resolution No. VIEW/GBM/4/2018/2.1

The Governing Body resolved to express its satisfaction upon the admissions into B.Tech., and M.B.A. for the academic year 2017-18 under the prevailing conditions, and suggested to take necessary steps for improvement of admissions in M.Tech.

Resolution No. VIEW/GBM/4/2018/2.2

The Governing Body reviewed the results of UG and PG programmes and expressed its happiness over the performance.

Resolution No. VIEW/GBM/4/2018/2.3

The Governing Body noted and placed on record its happiness about the University First Place in JNTUK first year results with 78.54 per cent.

Resolution No. VIEW/GBM/4/2018/2.4

The Governing Body is pleased to note that 144 out of 266 eligible students are placed as on date in different organizations during the academic year 2017-18.

Resolution No. VIEW/GBM/4/2018/2.5

The Governing Body noted with pleasure that 3 faculty are awarded Ph.D. It is also noted that 4 faculty members submitted their Ph.D. theses and 15 faculty members pursuing Ph.D. The governing Body congratulated their effort and promised continued support to faculty in such efforts.

Resolution No. VIEW/GBM/4/2017/2.6

The Governing Body while expressing its satisfaction about the publications by the faculty suggested the administration to encourage the faculty for more publications in reputed journals and conferences.

Resolution No. VIEW/GBM/4/2018/2.7

The governing Body expressed its satisfaction that the students are actively participating in co-curricular, sports, social, ethical, cultural and other activities. Also expressed their happiness for achieving first place in JNTUK Central Zone Kho-Kho and third place in volleyball completion.

Item-3 Ratification of selected faculty and approval for fresh recruitment.

A report on faculty selections made and requirement of faculty for the academic year 2017-18 is circulated to the members of the Governing Body. After perusal of the report by the members, the following resolutions are made:

Resolution No. VIEW/GBM/4/2018/3.1

i. The Governing Body noted with satisfaction that the services of 91 existing faculty are ratified 10 new faculty are selected through the interviews conducted by JNTU-Kakinda.

ii. The Governing Body resolved to convey it's thanks to the JNT University-Kakinada for arranging faculty selections/ratification of services of existing faculty

Resolution No. VIEW/GBM/4/2018/3.2

The Governing Body noted that 10 new faculty joined during this period through University selections and College level selections.

Resolution No. VIEW/GBM/4/2018/3.3

The Governing Body authorized the Chairman, Governing Body to recruit the additional faculty required.

Item-4 Income and expenditure status for the financial year 2017-18

The Principal sought permission from the members of the Governing Body to circulate the income and expenditure for the financial year 2017-18 later as the accounts are to be finalized.

Resolution No. VIEW/GBM/4/2018/4.1

The Governing Body resolved to permit the Principal to circulate the income and expenditure under autonomous status for the financial year 2017-18 later as the accounts are to be finalized.

Item-5 Budget Allocation for the financial year 2018-19

The proposed budget for the financial year 2018-19 as prepared by the Finance Committee is circulated to the members.

Resolution No. VIEW/GBM/4/2018/5.1

The Governing Body approved the proposed budget for the Academic year 2018-19 as prepared by the Finance Committee. The allocation of Budget is:

Institutional Level : 147,344,000/-

Department Level: **ECE**: Rs.35,690,000/-; **CSE**: Rs.34,310,000/-; **EEE**: Rs.20,061,000/-; **IT:** Rs.9,567,000/-; **ME**: Rs.8,116,000/-; /-; **BS&H**: Rs.29,685,000/-; **MBA**: Rs.9,915,000/-: **Library:** Rs.8,00,000/-

Item-6 Proposals for the Approval of Governing Body

Resolution No. VIEW/GBM/4/2018/6.1

The Governing Body resolved to approved the proposal of NAAC Accreditation application process followed by permanent affiliation and 2(f) and 12(b) and suggested to to take necessary steps to apply for NAAC Accreditation.

Resolution No. VIEW/GBM/4/2018/6.2

The Governing Body resolved to approved the proposal of Recruitment of Professors with Ph.D in CSE, ECE & EEE Departments to maintain at least One Professor in each Department as per guidelines of JNTUK.

Resolution No. VIEW/GBM/4/2018/6.3

Approval is accorded for Introduction of Means Scholarship Scheme to economically backward student.

Resolution No. VIEW/GBM/4/2018/6.4

The Governing Body approved the proposal of the following infrastructure additions for the academic year 2018-19 and approved the required funds for:

d) Renovations to Seminar Hall

e) Construction of Open Auditorium with sponsorship

Resolution No. VIEW/GBM/4/2018/6.5

Approval is accorded to construct separate hostel block for women's in VIEW campus to overcome the accommodation problems in present Hostel.

Resolution No. VIEW/GBM/4/2018/6.6

Approval is accorded to construct Arch at main road near to STBL Projects and Portico at main entrance to overcome the problems in rainy season.

Resolution No. VIEW/GBM/4/2018/6.7

Approval is accorded to construct Two & Four wheeler parking shed in VIEW campus as per the request raised by the students and staff.

Minutes of the 22nd meeting of Board of Governors

Vignan's Institute of Engineering for Women

Held on April 13, 2019 at 10.00 a.m. at Board Room, VIEW, Visakhapatnam

Members Present

1	Dr. CD Malleswar	Chairman
2	Sri K Pavan Krishna	Member
3	Sri.VenkataRayuluBonam	Member
4	Prof. P. V. G. D. Prasad Reddy	Member
5	Dr. B.Subba Rao	Member
6	Smt.P.Aruna Kumari	Member
7	Dr. V. ViziaSaradhi	Member
8	Dr.J.Sudhakar	Member Secretary
9	Prof.A.Sesha Rao	Member

[

The following members have requested for leave of absence expressed their inability to attend meeting.

S.No.	Name of the person	Designation
1	Dr. L. Rathaiah	Vice-Chairman
2	Padma Bhushan Sri.Dr.Y.Lakshmi Prasad	Member
3	Sri.R.BalaMurugan	Member
4	Mr.B.K.Surya Prakash	Member

The meeting was initiated with the welcome note by Chairman of Governing Body of VIEW, Dr CD Malleswar. He gave the opening remarks and spoke about important developments that took place in the College, placement record, overall results of the college and appreciate the faculty members for their efforts in achieving the excellent results in UG and PG courses.

The Chairman requested Principal **Dr.J.Sudhakar** to present the agenda notes for discussion.

The following items are discussed and the corresponding resolutions are adopted:

Item-1 Confirmation of the minutes of the earlier meeting held on 06.09.2018

The minutes of the meeting of the Governing Body held on 06.09.2018 were circulated to all the members for their comments. As there were no comments, it was declared that the minutes were confirmed.

Resolution No. VIEW/GBM/4/2018-19(2)/1

The Governing Body resolved to approve the minutes of the meeting held on 6th September 2018. Governing Body recommended the institute in the previous meeting to undertake the following:

1. Apply for NBA Accreditation followed by permanent affiliation & 2(f) and 12(b)
2. Recruitment of Professors
3. Exclusive computer lab for JNTUK Online exams (80 systems)
4. Infrastructure additions proposed:
    a) Renovations to Seminar Hall
    b) Construction of Open Auditorium with sponsorship
5. Separate Hostel Block in the campus
6. Arch at the main road (STBL) & Portico at main entrance
7. Two & Four wheeler parking shed

Item-2 Report by the Principal on the progress of the College during the Academic Year 2018-19 (Upto I Semester)

Principal gave a Power point presentation on various activities of the college since the last Governing Body meeting. Copy of the same was perused by the members and approved.

Resolution No. VIEW/GBM/4/2018-19(2)/2.1

The Governing Body resolved to express its satisfaction upon the admissions into B.Tech., and M.B.A. for the academic year 2018-19 under the prevailing conditions, and suggested to take necessary steps for improvement of admissions in M.Tech.

Resolution No. VIEW/GBM/4/2018-19(2)/2.2

The Governing Body reviewed the results of UG and PG programmes and expressed its happiness over the performance in the first semester of the academic year 2018-19

Resolution No. VIEW/GBM/4/2018-19 (2)/2.3

The Governing Body noted and placed on record its happiness about the University First Place in JNTUK first year results with 80.79 per cent in the first semester results of the academic year 2018-19.

Resolution No. VIEW/GBM/4/2018-19 (2)/2.4

The Governing Body is pleased to note that 286 out of 296 eligible students are placed as on date in different organizations during the academic year 2018-19.

Resolution No. VIEW/GBM/4/2018-19 (2)/2.5

The Governing Body while expressing its satisfaction about the publications by the faculty suggested the administration to encourage the faculty for more publications in reputed journals and conferences.

Resolution No. VIEW/GBM/4/2018-19(2)/2.6

The governing Body expressed its satisfaction that the students are actively participating in co-curricular, sports, social, ethical, cultural and other activities. Also expressed their happiness for achieving first place in JNTUK Central Zone Kho-Kho and third place in volleyball completion.

Item-3 Ratification of selected faculty and approval for fresh recruitment.

Resolution No. VIEW/GBM/4/2018-19(2)/3.1

The Governing Body is overwhelmed with happiness for about 66.41% of faculty was ratified by JNTUK till date.

Resolution No. VIEW/GBM/4/2018-19(2)/3.2

The Governing Body resolved to convey thanks to the JNT University-Kakinada for arranging faculty selections/ratification of services of existing faculty

Item-4 Income and expenditure status for the financial year 2018-19

The Principal sought permission from the members of the Governing Body to circulate the income and expenditure for the financial year 2018-19 later as the accounts are to be finalized.

Resolution No. VIEW/GBM/4/2018-19(2)/4.1

The Governing Body resolved to permit the Principal to circulate the income and expenditure under autonomous status for the financial year 2018-19 later as the accounts are to be finalized.

Item-5 Budget for the financial year 2019-20

The proposed budget for the financial year 2019-20 as prepared by the Finance Committee is circulated to the members.

Resolution No. VIEW/GBM/4/2018-19(2)/5.1

The Governing Body approved the proposed budget for the Academic year 2019-20 as prepared by the Finance Committee.

Item-6Proposals for the Approval of Governing Body

Resolution No. VIEW/GBM/4/2018-19(2)/6.1

The Governing Body resolved to approved the proposal of NBA Accreditation application process followed by permanent affiliation and 2(f) and 12(b) and suggested to to take necessary steps to apply for NAAC Accreditation.

Resolution No. VIEW/GBM/4/2018-19(2)/6.2

The Governing Body suggested to promote internal faculty from the position of Associate Professor to Professor instead of recruiting Professors from external sources to maintain at least One Professor in each Department as per guidelines of JNTUK.

Resolution No. VIEW/GBM/4/2018-19(2)/6.3

Approval is accorded for setting up of New Computer Lab with 80 systems for JNTUK online examinations.

Resolution No. VIEW/GBM/4/2018-19(2)/6.4

The Governing Body approved the proposal of the following infrastructure additions for the academic year 2018-19 and approved the required funds for:

Construction of Open Auditorium with sponsorship

Resolution No. VIEW/GBM/4/2018-19(2)/6.5

Approval is accorded toconstruct separate hostel block for women’s in VIEW campus to overcome the accommodation problems in present Hostel.

Resolution No. VIEW/GBM/4/2018-19(2)/6.6

Approval is accorded to establish main gate at security point along with security room and increase the security people.

Resolution No. VIEW/GBM/4/2018-19(2)/6.7

Approval is accorded to construct Two & Four wheeler parking shed in VIEW campus as per the request raised by the students and staff.

Minutes of the 23rd meeting of Board of Governors

Vignan's Institute of Engineering for Women

Held on November 12, 2019 at 10.00 a.m. at Board Room, VIEW, Visakhapatnam.

Members Presented

1	Dr. V.Bhujanga Rao	Chairman
2	Dr. L. Rathaiah	Vice-Chairman
3	Sri K Pavan Krishna	Member
4	Dr.Archana Sharma	Member
5	Sri.Venkata Rayulu Bonam	Member
6	Prof. P. V. G. D. Prasad Reddy	Member
7	Dr.Rishi Verma	Member
8	Dr. B.Subba Rao	Member
9	Smt.P.Aruna Kumari	Member
10	Mr.Suresh Kumar Tankala	Member
11	Dr.J.Sudhakar	Member Secretary
12	Prof.A.Sesha Rao	Member

The following members have requested for leave of absence expressed their inability to attend meeting.

S.No	Name of the Member	Designation
1.	Padma Bhushan Sri. Dr. Y Lakshmi Prasad	Member
2.	Sri. R.Bala Murugan	Member
3.	Mr.B.K.Surya Prakash	Member

The meeting was initiated with the welcome note by Vice-Chairman of Governing Body of VIEW, Dr.L.Rathaiah. He gave the opening remarks by introducing new Chairman of Governing Body Dr. V.Bhujanga Rao and other new member Dr.Archana Sharma, Dr.Rishi Verma and Mr.Suresh Kumar Tankala. He expressed confidence in getting the cooperation and support from other members of the Governing Body for smooth function of the Institution.

The Chairman requested Principal **Dr.J.Sudhakar** to present the agenda notes for discussion.

Principal welcomed, Dr.Archana Sharma, Dr.Rishi Verma and Mr.Suresh Kumar Tankala who have been recently nominated for Governing Body of VIEW and presented about important developments that took place in the College, placement record, overall results of the college and

appreciate the faculty members for their efforts in achieving the excellent results in UG and PG courses.

The following items are discussed and the corresponding resolutions are adopted:

Item-1 Confirmation of the minutes of the earlier meeting held on 13.04.2019

The minutes of the meeting of the Governing Body held on 13.04.2019 were circulated to all the members for their comments. As there were no comments, it was declared that the minutes were confirmed.

Item-2 Report by the Principal on the progress of the College during the Academic Year 2018-19

Principal Dr.J.Sudhakar gave a Power point presentation on various activities of the college since the last Governing Body meeting. Copy of the same was perused by the members and approved.

Resolution No. VIEW/GBM/4/2019-20(1)/2.1

The Governing Body resolved to express its satisfaction upon the admissions into B.Tech., and M.B.A. for the academic year 2018-19 under the prevailing conditions, and suggested to take necessary steps for improvement of admissions in M.Tech.

Resolution No. VIEW/GBM/4/2019-20(1)/2.2

The Governing Body reviewed the results of UG and PG programmes and expressed its happiness over the performance.

Resolution No. VIEW/GBM/4/2019-20(1)/2.3

The Governing Body noted and placed on record its happiness about the University First Place in JNTUK first year results with 84.18 percent which is 5.64 percent more than the results of 2017-18 (78.54 per cent).

Resolution No. VIEW/GBM/4/2019-20(1)/2.4

The Governing Body is pleased to note that 193 out of 297 eligible students are placed as on date in different organizations during the academic year 2018-19.

Resolution No. VIEW/GBM/4/2019-20(1)/2.5

The Governing Body noted with pleasure that 4 faculty are awarded Ph.D. It is also noted that 5 faculty members submitted their Ph.D. theses and 15 faculty members pursuing Ph.D. The governing Body congratulated their effort and promised continued support to faculty in such efforts.

Resolution No. VIEW/GBM/4/2019-20(1)/2.6

The Governing Body while expressing its satisfaction about the publications by the faculty and suggested the management to encourage the faculty for more publications in reputed journals and conferences. Also advised to encourage students to pursue certification progrmes like NPTEL, Udacity, IoT, Fusion 360 etc.,

Resolution No. VIEW/GBM/4/2019-20(1)/2.7

The governing Body expressed its satisfaction that the students are actively participating in co-curricular, sports, social, ethical, cultural and other activities especially visit of ISRO, UBA activities, Activities of 150th Mahatma, Swatcha Sarveksha, Water conservation, National Sports Day.

Item-3 Ratification of selected faculty and approval for fresh recruitment.

A report on faculty selections made and requirement of faculty for the academic year 2018-19 is circulated to the members of the Governing Body. After perusal of the report by the members, the following resolutions are made:

Resolution No. VIEW/GBM/4/2019-20(1)/3.1

i. The Governing Body noted with satisfaction that the services of 91 (81.25%) existing faculty are ratified 9 new faculty are selected through the interviews conducted by JNTU-Kakinda.

ii. The Governing Body resolved to convey it's thanks to the JNT University-Kakinada for arranging faculty selections/ratification of services of existing faculty

Resolution No. VIEW/GBM/4/2019-20(1)/3.2

The Governing Body noted that 10 new faculty joined during this period through University selections and College level selections.

Resolution No. VIEW/GBM/4/2019-20(1)/3.3

The Governing Body authorized the Chairman, Governing Body to recruit the additional faculty required.

Item-4 Income and expenditure status for the financial year 2018-19

The Principal sought permission from the members of the Governing Body to circulate the income and expenditure for the financial year 2018-19 later as the accounts are to be finalized.

Resolution No. VIEW/GBM/4/2019-20(1)/4.1

The Governing Body resolved to permit the Principal to circulate the income and expenditure under autonomous status for the financial year 2018-19 later as the accounts are to be finalized.

Item-5 Budget Allocation for the financial year 2019-20

The proposed budget for the financial year 2019-20 as prepared by the Finance Committee is circulated to the members.

Resolution No. VIEW/GBM/4/2019-20(1)/5.1

The Governing Body approved the proposed budget for the Academic year 2019-20 as prepared by the Finance Committee. The allocation of Budget is:

Institutional Level : 152,575,000/-

Department Level: **ECE**:Rs.38,274,000/-; **CSE**: Rs.37,459,000/-; **EEE**: Rs.22,570,000/- **IT:** Rs.10,607,000/-; **ME**:Rs.7,777,000/-; **BS&H**: Rs.28,832,000/-; **MBA**: Rs.70,56,000/-: **Library:** Rs.420,000/-

Item-6 Proposals for the Approval of Governing Body

Resolution No. VIEW/GBM/4/2019-20(1)/6.1

The Governing Body resolved to approved the proposal to submit pre qualified in the month of Mar-Apr 2020 followed by the submission of SAR in the month of May-June 2020.

Resolution No. VIEW/GBM/4/2019-20(1)/6.2

6.2.1 Approval is accorded for applying 2(f) and 12(b) status through an indemnity bond and it is resolved that every amount of grant that will be given by the commission to the college shall when received by the college solely be used for the benefit and purposes of the college in accordance with the terms and conditions of the grant and not for any other purpose or any other institution.

6.2.2 The Institute shall furnish to the commission the balance sheet of the Institution every year along with the annual audited accounts of the college.

6.2.3 The institute shall fulfil any other terms and condition lay down in indemnity bond.

Resolution No. VIEW/GBM/4/2019-20(1)/6.3

The Governing Body resolved to approve the proposal of Recruitment of Professors with Ph.D in CSE, ECE & EEE Departments to maintain at least One Professor in each Department as per guidelines of JNTUK.

Resolution No. VIEW/GBM/4/2019-20(1)/6.4

Approval is accorded for organizing International Conference by CSE, & IT departments each during the academic year 2019-20.

Resolution No. VIEW/GBM/4/2019-20(1)/6.5

Approval is accorded for setting up of New Computer Lab with 100 systems for JNTUK online examinations.

Resolution No. VIEW/GBM/4/2019-20(1)/6.6

The Governing Body approved the proposal of the following infrastructure additions for the academic year 2019-20 and approved the required funds for:

a) Interview panel rooms
b) Seminar Hall in proposed forth floor
c) Construction of Open Auditorium with sponsorship

Resolution No. VIEW/GBM/4/2019-20(1)/6.7

Approval is accorded to construct separate hostel block for women's in VIEW campus to overcome the accommodation problems in present Hostel.

Resolution No. VIEW/GBM/4/2019-20(1)/6.8

Approval is accorded to construct Two & Four wheeler parking shed in VIEW campus as per the request raised by the students and staff.

Resolution No. VIEW/GBM/4/2019-20(1)/6.9

Approval is accorded to implement promotion policy to all regular teaching faculty who are seeking for the promotion from **Assistant Professor Scale to Associate Professor Scale** and advised to include in administrative manual of VIEW.

Minutes of the 24th meeting of Board of Governors

Vignan's Institute of Engineering for Women

Held on February 2, 2021 at 10.00 a.m. at Board Room, VIEW, Visakhapatnam

Members Presented

1	Dr. B.Subba Rao	Chairman
2	Dr. L. Rathaiah	Vice-Chairman
3	Sri Srikant Nandigam	Member
4	Dr.A.Sesha Rao	Member
5	Dr.Archana Sharma	Member
6	Mr.Appa Mogali	Member
7	Dr.Rishi Verma	Member
8	Mr.Suresh Kumar Tankala	Member
9	Smt.P.Aruna Kumari	Member
10	Dr.J.Sudhakar	Member Secretary
11	Dr.K.Durga Syam Prasad	Member

The following members have requested for leave of absence expressed their inability to attend meeting.

S.No	Name of the Member	Designation
1.	Prof. P. V. G. D. Prasad Reddy	Member
2.	Sri. R.Bala Murugan	Member
3.	Mr.B.K.Surya Prakash	Member

The meeting was initiated with the welcome note by Vice-Chairman of Governing Body of VIEW, Dr.L.Rathaiah. He gave the opening remarks by introducing new Chairman of Governing Body Dr. B.Subba Rao garu and other new member Mr.Appa Mogali. He expressed confidence in getting the cooperation and support from other members of the Governing Body for smooth function of the Institution. The Chairman requested Principal **Dr.J.Sudhakar** to present the agenda notes for discussion.

Principal welcomed Mr.Appa Mogali who have been recently nominated for Governing Body of VIEW and presented about important developments that took place in the College, placement record, overall results of the college and appreciate the faculty members for their efforts in achieving the excellent results in UG and PG courses.

The following items are discussed and the corresponding resolutions are adopted:

Item-1 Confirmation of the minutes of the earlier meeting held on 12.11.2019

The minutes of the meeting of the Governing Body held on 12.11.2019 were circulated to all the members for their comments. As there were no comments, it was declared that the minutes were confirmed.

Item-2 Report by the Principal on the progress of the College during the Academic Year 2019-20

Principal Dr.J.Sudhakar gave a Power point presentation on various activities of the college since the last Governing Body meeting. Copy of the same was perused by the members and approved.

Resolution No. VIEW/GBM/4/2020-21(1)/2.1

The Governing Body resolved to express its satisfaction upon the admissions into B.Tech., and M.B.A. for the academic year 2019-20 under the prevailing conditions, and suggested to take necessary steps for improvement of admissions in M.Tech.

Resolution No. VIEW/GBM/4/2020-21(1)/2.2

The Governing Body reviewed the results of UG and PG programmes and expressed its happiness over the performance.

Resolution No. VIEW/GBM/4/2020-21 (1)/2.3

The Governing Body noted and placed on record its happiness about the final year results with 93.31 percent which is more than the results of 2018-19.

Resolution No. VIEW/GBM/4/2020-21 (1)/2.4

The Governing Body is pleased to note that 390 out of 443 eligible students are placed as on date in different organizations during the academic year 2019-20.

Resolution No. VIEW/GBM/4/2020-21 (1)/2.5

The Governing Body noted with pleasure that 3 faculty are awarded Ph.D. It is also noted that 5 faculty members submitted their Ph.D. theses and 30 faculty members pursuing Ph.D. The governing Body congratulated their effort and promised continued support to faculty in such efforts.

Resolution No. VIEW/GBM/4/2020-21 (1)/2.6

The Governing Body while expressing its satisfaction about the publications by the faculty, sanctioning of AICTE sponsored STTP, Sanctioning of TEXAS Instruments Sponsored lab for Embedded systems is established in the Department of ECE in collaboration with Texas Instruments (TI) Bangalore, Sanctioning of TEXAS Instruments Sponsored lab for Internet of Things Lab & Advanced Microprocessors Lab is established in the Department of IT in collaboration with Texas Instruments (TI) Bangalore, granting of Summer Research Fellowship Program by Indian Academy of Sciences (IASc) and Indian National Science Academy and suggested the management to encourage the faculty for more publications in reputed journals and conferences.

Resolution No. VIEW/GBM/4/2020-21(1)/2.7

The governing Body expressed its satisfaction that the students are actively participating in co-curricular, sports, social, ethical, cultural and other activities especially Industrial Visit to ISRO, participation in virtual paper presentation and poster presentations, UBA activies.

Item-3 Ratification of selected faculty and approval for fresh recruitment.

A report on faculty selections made and requirement of faculty for the academic year 2019-20 is circulated to the members of the Governing Body. After perusal of the report by the members, the following resolutions are made:

Resolution No. VIEW/GBM/4/2020-21 (1)/3.1

i. The Governing Body noted with satisfaction that the services of 80 (50%) existing faculty are ratified by JNTU-Kakinda.

ii. The Governing Body resolved to convey it's thanks to the JNT University-Kakinada for arranging faculty selections/ratification of services of existing faculty.

Item-4 Income and expenditure status for the financial year 2019-20

The Principal sought permission from the members of the Governing Body to circulate the income and expenditure for the financial year 2019-20 later as the accounts are to be finalized.

Resolution No. VIEW/GBM/4/2020-21 (1)/4.1

The Governing Body resolved to permit the Principal to circulate the income and expenditure under autonomous status for the financial year 2019-20 later as the accounts are to be finalized.

Item-5 Budget for the financial year 2020-21

The proposed budget for the financial year 2020-21 as prepared by the Finance Committee is circulated to the members.

Resolution No. VIEW/GBM/4/2020-21 (1)/5.1

The Governing Body approved the proposed budget for the Academic year 2020-21 as prepared by the Finance Committee. The allocation of Budget is:

Institutional Level : 132,250,000/-

Department Level: **ECE**:Rs.28,258,000/-; **CSE**: Rs.35,959,000/-; **EEE**: Rs.16,896,000/- **IT:** Rs.10,463,000/-; **ME**:Rs.4,718,000/-; **BS&H**: Rs.31,067,000/-; **MBA**: Rs.4,889,000/-: **Library:** Rs.500,000/-

Item-6 Proposals for the Approval of Governing Body

Resolution No. VIEW/GBM/4/2020-21 (1)/6.1

6.2.1 Approval is accorded for applying 2(f) and 12(b) status through an indemnity bond in accordance with the terms and conditions of the grant and not for any other purpose or any other institution.

6.2.2 The institute shall fulfil any other terms and condition lay down in indemnity bond.

Resolution No. VIEW/GBM/4/2020-21 (1)/6.2

Approval is accorded for organizing International Conference by ECE & EEE departments each during the academic year 2020-21.

Resolution No. VIEW/GBM/4/2020-21 (1)/6.3

Approval is accorded for setting up of New Computer Lab for JNTUL Online exams with 80 systems.

Resolution No. VIEW/GBM/4/2020-21 (1)/6.4

Approval is accorded to construct separate hostel block for women's in VIEW campus to overcome the accommodation problems in present Hostel.

Resolution No. VIEW/GBM/4/2020-21 (1)/6.5

Approval is accorded to construct Two & Four wheeler parking shed in VIEW campus as per the request raised by the students and staff.

10.1.2(B) ADMINISTRATIVE SETUP

The Institute has a well marked administrative set up conforming to the norms of the AICTE and the UGC.

✓ The Principal wields the powers with regard to financial and to all the academic and administrative matters including the conduct of examinations.

✓ Each of the departments has a head of the department who, in turn, assigns various tasks to different members of faculty.

✓ For undertaking examination oriented tasks, Principal is the Chief superintendant of Examinations.

✓ As far as the administrative functions are concerned, the Dean of administration and the manager looks after the activities executed by clerical, programming, data entry and ministerial staff.

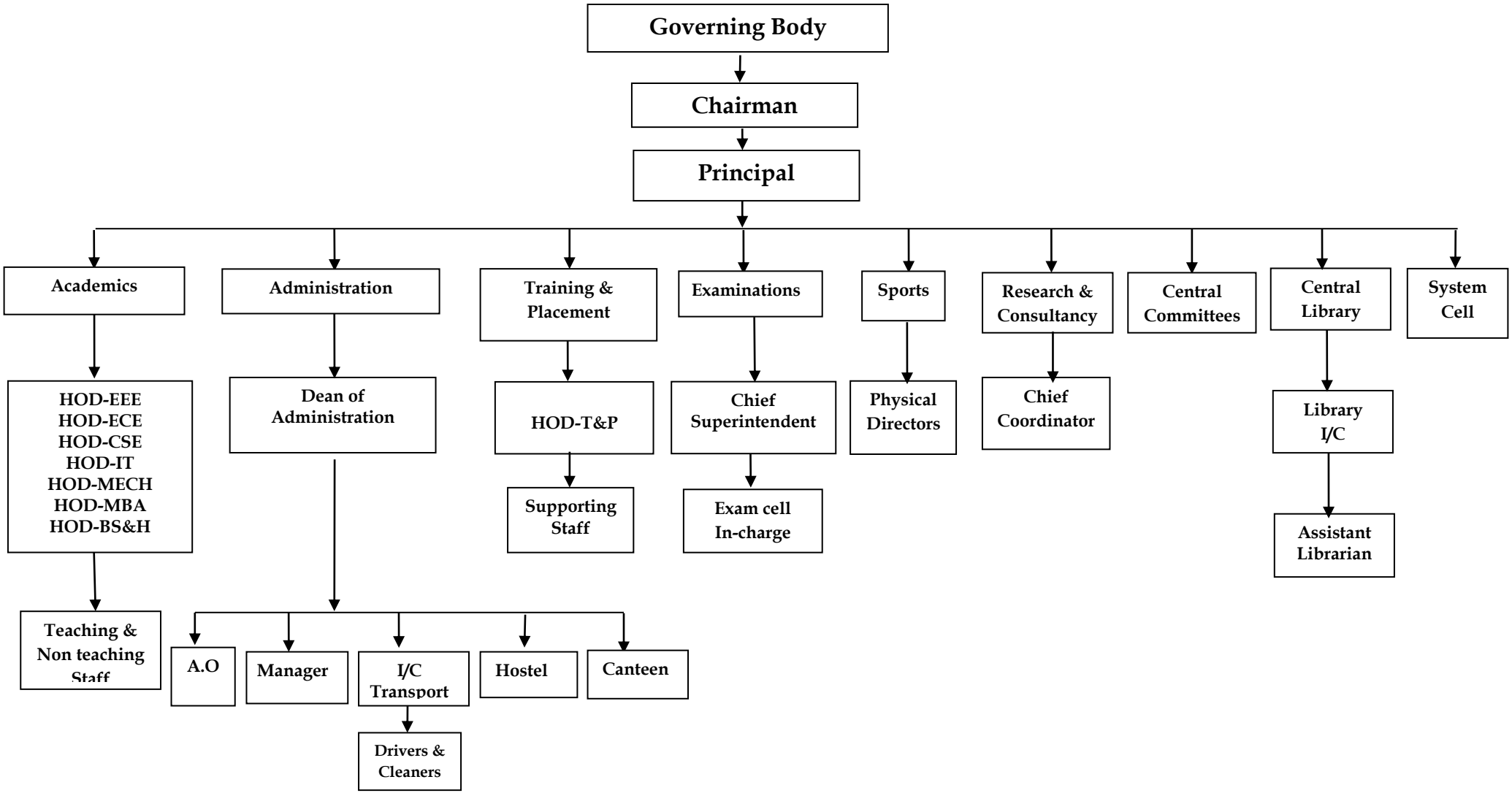
✓ The departments have their own respective department offices which function under the guidance of respective heads of departments.

✓ All the monetary transactions (both the receipts and payments) are processed through a nationalized bank.

✓ On the whole, the members of faculty and nonteaching staff of the college believe in the dignity of labour, and all the functions of the college are meticulously planned, properly coordinated and perfectly executed.

The structure of the institutional management is shown below:

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN: ORGANIZATIONAL STRUCTURE



10.1.2 (C) DUTIES AND RESPONSIBILITIES OF ADMINISTRATIVE AUTHORITIES

(i) **Principal**

The Principal is the administrative head for all the activities of the Institution. He is responsible for implementation of all the policy decisions of the management with a view to achieve the set targets.

As the head of the Institution, the Principal is a leader who inspires the students and the staff and motivates them for cordial working atmosphere to make the institution excel well. The following are the important functions:

Academic:

1. The Principal shall make arrangements for planning the various courses to be offered and the preparation of course materials
2. The Principal shall supervise the course timetable, staff allocation, staff attendance and syllabus coverage.
3. He/She shall ensure the conduct of internal continuous assessment examinations at appropriate periods.
4. He/She shall monitor the student projects, progress and the University examinations (theory and practical).
5. He/She shall review the reports of the analysis of test marks of the students and arrange for special coaching etc for academically poor students.

General Administration and Finance:

1. The Principal shall convene the Governing council meeting at least once in every semester.
2. The Principal shall make recommendations regarding plans for the development of the institution in the years to come.
3. He shall help the creation of necessary infrastructure for a conducive atmosphere for education in the campus.
4. He shall ensure the appointment of qualified staff (both teaching and non -teaching)
5. All correspondences within the campus and to outside organizations and the University will be done through the Principal with the approval of the Chairman
6. The Principal shall convene the HODs meeting at least once in 15 days and maintain the Minutes book.

7. Principal is assisted by the Finance committee and purchase committee in financial administration.
8. The Principal or the officer delegated with such powers shall counter sign all kinds of scholarship bills in respect of students of the college.

Student Affairs:

1. The Principal shall plan for offering value-added courses, training and placement opportunities and educational tour to the students.
2. He shall provide avenues for co-curricular, extra-curricular activities, professional societies and counseling and guidance programmes to the students.
3. He shall arrange for the periodical monitoring of students attendance and their progress in studies and arrange for parent-teacher meetings as and when necessary.
4. He shall take appropriate action to ensure that the rules and regulations are strictly followed by the students.
5. The Management expects the Principal to be a coordinating point to ensure that all the policies of the management are implemented and promote the college as an excellent educational institution.

Research and Extension Activities:

1. The Principal shall encourage conducting of seminars and symposia and such research – oriented activities in the campus.
2. He shall encourage the staff to become members of professional bodies, carry out consultancy works, mini projects and other extension activities.

(ii) Head of the Department

An efficient Departmental head is a well disciplined and dedicated person with leadership qualities. He motivates the Students and Staff to perform their respective academic / administrative duties and responsibilities. His *duties* are as under:

1. Check the attendance register every week and sign after verification.
2. Preparation of (i) academic schedules and its implementation, (ii) academic time table, (iii) laboratory log books, manuals, registers, through the concerned faculty member.
3. Prepare the list of laboratory requirements as necessary and initiate procurement action to facilitate smooth conduction of the lab experiments.
4. Carryout the stock verification, maintenance of the lab and its equipment.

5. Recommend the leaves / permissions of the staff within the department only after ensuring the work adjustments and maintain the leave record.
6. Conduct regular staff meetings to monitor the progress and preserve the minutes of the meeting.
7. Students having shortage of attendance must be counseled and their parents are informed.
8. The overall distribution of the faculty work load should be unbiased.
9. Monitor the syllabus completion at regular interval and prepare fortnightly reports for submission to the Principal.
10. Conduct and maintain the record of the sessional and practical marks awarded is as per university regulations.
11. Participate in any additional activities entrusted by the Principal

(iii) Dean-Administration

The Dean of Administration is a person looking into all administrative matters prescribed by Principal/Management from time to time. His/Her duties are as under:

1. Overseeing all personnel matters involving academic and non academic employees including notification, recruiting, appointment, reappointment, termination and dismissal.
2. Maintain service records and supervise the process updating personal files of both teaching and Non-Teaching staff.
3. Co-ordinate to conduct Governing Body Meeting and Prepare the Governing Body Meeting Reports
4. Evaluation of teaching and non-teaching staff appraisals for annual Increments and placing in front of Management for Approval.
5. Implementation of AICTE Pay Scales to the Teaching Staff and revision of pay scales from time to time and maintenance of service registers, salary registers of both teaching and non-teaching staff.
6. Authorization of all office & administrative, operational expenses to make payment to suppliers/vendors.
7. Verification and Authorization for Financial Assistance to teachers to attend conferences, seminars, workshops in and outside India.
8. Evaluation of Means and Merit scholarships of students and Awards to Teaching and non teaching staff.

9. Looking into affiliated University (JNTU, Kakinada) related matters such as attending meetings, submitting reports and taking necessary actions on the affiliated University Notifications and circulars from time to time.
10. Guiding the staff to prepare reports pertaining to AFRC, NIRF, Facts Finding Committee (FFC) and AICTE.
11. Exercise such other duties, as prescribed by or assigned by the Management from time to time.

(iv) Training and Placement Officer

The training and placement officer are the coordinator of placement and training cell. One faculty member from each department nominated by the respective H.O.D is currently a member of the cell. The cell meets once in every month to finalize the plan of activities for II, III, and IV-year students to improve the employability of students, the cell submits the plan for the approval of the Principal and Management. The activities of this officer comprise of (i) Training (ii) Placement and (iii) Alumni.

Training

1. To create an awareness among the students about the requirements of various recruiting organizations.
2. To create awareness and train the students in communication skills.
3. To establish a "Centre for Career Guidance and Counseling" and to organize professional counseling by experts in career opportunities.

Placement

1. To maintain the data base of various companies / prospective recruiters and recruiting agencies and correspond with them.
2. To coordinate with the HOD's, Exam branch, and the Principal to procure a list of the eligible students for jobs, projects, further studies and desirous of becoming entrepreneurs and guide them in the respective areas.
3. To organize regular mock interviews and group discussions in association with the language faculty.
4. To intimate the students about the placement campaign in various major cities in the country.

5. To correspond with various prospective employers with respect to Project Works, Seminars, Industry Visits and Job recruitment

6. To gather the information about further studies of various universities and display the same for higher studies.

Alumni

1. To educate the present outgoing batch of students about the alumni association and its relevance for the betterment of the students after their graduation.

2. To coordinate the filling up of the alumni proforma by the outgoing students.

3. To maintain an alumni database and conduct an alumni get together at least once in a year.

4. To send greetings or letters of appreciation to the alumni.

(v) In-Charge- Examination

Examination in charge is the centre point for conducting a standard examination system in this Institution. His keen observation and proper supervision help to develop a standard assessment and evaluation system for an organization. His responsibilities include:

1. To coordinate the conduct of various examinations.

2. To inform the Principal regarding the scheduling, material requirement, procedures, invigilation status well in advance.

3. To coordinate with the administrative staff with regard to requirement of stationery, printing and other material required for the conduct of examinations.

4. To maintain total confidentiality and ethics in the conduct of the examinations.

5. To maintain all the records and information pertaining to the examinations.

6. To conduct regular results analysis with the help of administrative staff and inform the Principal.

7. To prepare a monthly, quarterly, half yearly and annual report and submit to the Principal.

(vi) Coordinator - Research & Development

A research and development (R&D) coordinator perform a number of highly important roles within an organization. They are responsible for research, planning, and implementing new programs and protocols into their company or organization and overseeing the development of new products. His duties and responsibilities include:

1. To constitute a project screening committee – to process any project selected by the Staff & Students.

2. To maintain a database of the research activities carried out by the Staff & students.

3. To liaise with the outside institutions of repute for carrying out research and consultancy activities.

4. To ensure and encourage development of in-house projects.

5. To help the students in selecting live projects in their respective areas.

(vii) Coordinator- Central Library

The coordinator duties and responsibilities consist of the following.

1. To inform all the users the rules and regulations of the Library in terms of issue, renewal, the Do's and the Don'ts in the Library.

2. To organize library audit once in every year

3. To coordinate among student and staff and understand the library needs and inform the library about this.

4. To organize various functions and activities such as library week, or to install clubs such as reading club essentially to develop a very interactive and vibrant reading and library usage culture among the student and staff.

5. To recommend the required volumes, titles of books, Journals, Magazines, News papers, Audio video CD's and infrastructure as per AICTE/ JNTU norms.

6. To check the correctness in the stock register/ Accession register and prepare a monthly, quarterly, half yearly and annual report and submit to the Principal.

8. To bring to the notice of the Principal any complaints / suggestions from the students / staff.

(viii) Coordinator- Games & Sports

The Sports Coordinator at VIEW has overall responsibility for the leadership of all institutional sports and works with other staff to ensure that a diverse, well-managed sports program is in place for students. His/her main duties are:

1. To ensure the availability sufficient quantity of sports equipment through purchase as and when required by following the establish purchase procedures.

2. To coordinate the maintenance of records of the purchase i.e. quotation, purchase order, bills and stock register.

3. Any issue deemed fit must be brought to the notice of the Principal.

10.1.2 (D) ACADEMIC AND ADMINISTRATIVE BODIES:

The following is the list of academic and administrative bodies constituted to work towards to betterment of all stakeholders of the Organization.

(a) Internal Quality Assurance Committee (IQAC)

Internal Quality Assurance Cell (IQAC) has been promoting measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

Table 10.2 Composition of IQAC

Sl. No	Designation	Recommendation of IQAC	Name of office bearer
1.	Chairperson	Head of the Institution	Dr.J.Sudhakar –Principal, VIEW
2.	Senior Teacher	One of the senior faculty as the Coordinator of the IQAC	Dr.Akanksha Mishra, Professor, EEE
3.	Admin. Representative	Few Senior Administrative Officers	Dr. P.S.Ravindra, Dean-Admin Mr.P.Chandra Sekhar Babu,
4.	Senior faculty representatives	Three to eight teachers	1. Dr.K.Vijaya Kumar, HOD-CSE 2. Dr.Ch.Ramesh Babu, HOD-ECE 3. Dr.K.Durga S Prasad, HOD-EEE 4. Dr.B.Prakash, HOD-IT 5. Dr.V.Anandababu, HOD-MECH 6. Dr.K.Chaitanya, HOD-BS&H 7. Dr.M.Pardha Saradhi, HOD-MBA
5.	Management representative	One member from the Management	Prof.A.Sesha Rao-Academic Director
6.	Local Society nominee	One/two nominees from local society, Students and Alumni	Mr.U.Chitti Babu, D.G.M (HR), Visakha Dairy
	Alumini nominee		Ms.Sarika Bora, Senior Systems Engineer, Infosys Limited
	Student nominee		Ms.Chandana Sravani, IV ECE
7.	Employer Nominee	One/two nominees from Employers/Industrialist/Stakeholders	Dr.K.V.Ramana Rao, Head-T&P
	Industrialist nominees		Girish Tiwari, Manager, Vizag Steel Plant
	Stakeholder Nominee		Mr.P.V.Satyanarayana Raju, RINL, Visakhapatnam

Committee Frequency of Meetings: As and when necessary

The prime tasks of the IQAC are as follows:

1. Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution
2. Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes
3. Documentation of the various programmes/activities leading to quality improvement.
4. Development and maintenance of institutional database through College Management System for the purpose of maintaining /enhancing the institutional quality.
5. Prepare a consolidated report of all the status, in terms of losses, obsolete equipment, items recommended for writing-off, disposal of waste, general fitness of all equipment and so on.
6. Ensure research work papers are adequately documented and audit evidence is sufficient.
7. Conduct periodic training workshops to promote awareness of internal controls and to discuss changes in policies that will impact the system.
8. To give adequate counseling and guidance to students in their personal / academic / professional fronts through the Counseling and Guidance cell.

b. Academic Planning and Advisory Committee

The college academic committee is formed with the Principal and Heads of the department. The function of APAC is to make recommendations to the management of the college and to the governing board with regard to academic and professional matters. APAC has been working for the quality enrichment and attainment of expected academic outcomes. The Academic Planning and Advisory Committee takes-up the following activities.

1. Monitor submission of Lesson Plans, Issue of Attendance Registers, List of students, Class Time-Tables consisting of Tutorial classes, Sports counseling hours, GATE, CRT, PDP Classes, remedial time tables, subject revision time-table counseling.

2. Frame the necessary academic structure so as to achieve the objectives of the college and supervise the day to day administration of the college.

4. Facilitate the events such as faculty and student induction programmes, workshops, seminars and symposium, cultural activities.

5. To review the academic and related activities of the college.

6. To formulate master plan for campus development, facilitating implementation of the provision of the perspective plan.

7. To draw new schemes of development for the college.

8. To plan for resource mobilization through industry interaction, consultancy and extramural funding.

9. To promote research and extension activities in the college campus.

10. To plan for sustaining the quality of education, quality improvement and accreditation of the college.

Committee Frequency of Meetings: Two time a year

Table 10.3 Composition of Academic Planning and Advisory Committee

Sl. No	Name of Committee Member	Designation	Position
1.	Dr.J.Sudhakar	Principal	Chairman
2.	Prof.A.Sesha Rao	Academic Director	Member
3.	Sri R.Sri Hari	Scientist-G, NSTL	External Member
4.	Dr.K.Vijaya Kumar	HoD-CSE	Member
5.	Dr.Ch.Ramesh Babu	HoD-ECE	Member
6.	Dr.K.Durga Syam Prasad	HoD-EEE	Member
7.	Dr.B.Prakash	HoD-IT	Member
8.	Dr.V.Anandababu	HoD-MECH	Member
9.	Dr.M.Pardha Saradhi	HoD-MBA	Member
10.	Dr.K.Chaitanya	HoD-BS&H	Member

c. Examination Committee

The Prime tasks of the Committee are as follows:

1. Lesioning with examination section of JNTUK regarding the conduct of examinations (UG &PG), Spot Valuation.
2. Identification of detained candidates and promoted candidates based on credits and attendance
3. Estimation of stationary requirements for conduction of examinations
4. Monitoring and conduction of University and Internal Examinations

Table 10.4 Composition of Examination Committee

Sl.No	Name of Committee Member	Designation	Position
1.	Dr.J.Sudhakar	Principal	Chief Superintendent
2.	Prof.A.Sesha Rao	Academic Director	Member
3.	Mr.A.Ganapathi Rao	Exam Cell in-charge	Member
4.	Mr.P.Anil Kumar	Coordinator-UG	Member
5.	Mr.K.Santosh Kumar	Coordinator-PG	Member
6.	Dr.K.Vijaya Kumar	HoD-CSE	Member
7.	Dr.Ch.Ramesh Babu	HoD-ECE	Member
8.	Dr.K.Durga Syam Prasad	HoD-EEE	Member

9.	Dr.B.Prakash	HoD-IT	Member
10.	Dr.V.Anandababu	HoD-MECH	Member
11.	Dr.M.Pardha Saradhi	HoD-MBA	Member
12.	Dr.K.Chaitanya	HoD-BS&H	Member

Committee Frequency of Meetings: Once after every examination session.

d. Training and Placement Committee

The Prime tasks of the Committee are as follows:

1. Provide campus drive placements for eligible students.

2. Develop the students with their behavioiral skills, language and communication skills, in their four years of study and also counsel them for job opportunities in the country and abroad.

1. Develop communication skills in students and improve the vocabulary and LSRW skills (Listening, Speaking, Reading & Writing), technical report writing and presentation skills.
2. Prepare students for campus interviews, reasoning and aptitude tests.
3. Maintain Alumni database and invite their valuable suggestions by conducting alumni meet regularly.

Table 10.5 Composition of Training and Placement Committee

S. No.	Name	Designation	Position
1	Dr. J. Sudhakar	Professor	Principal
2	Dr.K.V.Ramana Rao	Associate Professor	Training and Placement Officer
3	Mr.M.Krishna Kishore	Assistant Professor	Assistant Placement Officer
4	Mr.J.Ravi Chandra	Assistant Professor	Technical Trainer
5	Mr. K.Srinivasa Rao	Assistant Professor	T & P coordinator – EEE
6	Mr.D.Kesava	Assistant Professor	T & P coordinator – ME
7	Mr.G.Lakshmana	Assistant Professor	Placements coordinator – ECE
8	Mr.E.Tataji	Assistant Professor	Training coordinator – ECE
9	Mr.R.Ravi	Assistant Professor	T & P coordinator – CSE
10	Mr.S.Sagar	Assistant Professor	T & P coordinator – IT
11	Mrs.M.Satyavathi	Assistant Professor	T & P coordinator – MBA
12	Mr.P.L.J.E.Kiran	Senior Assistant	T & P Assistant
13	Mrs.P.Pratyusha	Junior Assistant	T & P Assistant

Committee Frequency of Meetings: Once in a month

e. Library Committee

The LC is responsible to:

1) Prepare the list of text books/Journals to be purchased for the current academic year.

2) Prepare yearly budget for Library and send recommendations to management

3) Conduct at least two meetings at the beginning of every semester to review the performance of all library procedures.

4) Review and enhance digital library resources.

5) Guide the librarian in the overall functioning of the central library both qualitatively and quantitatively.

Table 10.6 Composition of Library Committee

Sl.No	Name of Committee Member	Designation	Position
1.	Dr.J.Sudhakar	Principal	Chairman
2.	Prof.A.Sesha Rao	Academic Director	Member
3.	Dr.K.Vijaya Kumar	HoD-CSE	Member
4.	Dr.Ch.Ramesh Babu	HoD-ECE	Member
5.	Dr.K.Durga Syam Prasad	HoD-EEE	Member
6.	Dr.B.Prakash	HoD-IT	Member
7.	Dr.V.Anandababu	HoD-MECH	Member
8.	Dr.M.Pardha Saradhi	HoD-MBA	Member
9.	Dr.K.Chaitanya	HoD-BS&H	Member
10.	Mrs.A.L.Vineela	Librarian	Member
11.	Mr.P.Ashok Kumar	Assistant Professor-ECE	Coordinator

Committee Frequency of Meetings: Once in a Semester

f. Research and Development Committee

The R&DC is responsible to:

1. Review the proposals submitted by each department for R&D projects.

2. Guide the departments in submitting R&D proposals for funding agencies like AICTE/MHRD, DST, UGC, DRDO etc.,

3. Review the progress of R&D projects, if any

4. Conduct workshops, conferences, guest lectures on advanced research or emerging trends in industry needs.

Table 10.7 Composition of Research and Development Committee

Sl.No	Name of Committee Member	Designation	Position
1.	Dr.J.Sudhakar	Principal	Chairman
2.	Prof.A.Sesha Rao	Academic Director	Member
3.	Dr.K.Vijaya Kumar	HoD-CSE	Member
4.	Dr.Ch.Ramesh Babu	HoD-ECE	Member
5.	Dr.K.Durga Syam Prasad	HoD-EEE	Member
6.	Dr.B.Prakash	HoD-IT	Member
7.	Dr.V.Anandababu	HoD-MECH	Member
8.	Dr.M.Pardha Saradhi	HoD-MBA	Member
9.	Dr.K.Chaitanya	HoD-BS&H	Coordinator

Committee Frequency of Meetings: Twice in a Semester

g. Other Statutory and Non-Statutory Committees

In addition to above committees, the college has other committees to ensure proper development and management of academic, financial and general administrative affairs. All the below mentioned committees comprise of internal officials and are constituted to operationalize decisions taken by the statutory committees and also to manage day to day operations.

Table 10.8 Composition of Other Statutory and Non-Statutory Committees

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) Monitor admission procedures for students admitted under convener quota, management quota. b) Maintain admission register for all UG and PG students. c) Issue of code of conduct, academic rules & regulations, course structure & syllabus. d) Analyze admission trends and provide feedback/suggestions syllabus. e) Preparation & Submission of necessary documents to University & APSCHE. **Frequency of Meeting: Once in a Year**
1.	Admission Committee (AC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr.N.Srikanth	Executive Director	Member	
4.		Dr.K.Vijaya Kumar	HoD-CSE	Member	
5.		Dr.Ch.Ramesh Babu	HoD-ECE	Member	
6.		Dr.B.Prakash	HoD-IT	Member	
7.		Dr.V.Anandababu	HoD-MECH	Member	
8.		Dr.M.Pardha Saradhi	HoD-MBA	Member	
9.		Dr.K.Chaitanya	HoD-BS&H	Member	
10.		Mr.S.A.Ramakrishna Raju	A.O.	Member	
11.		Mr.B.Nagabhushan Rao	Asst.Prof -BS&H	Coordinator	
Sl.No	**Committee Name**	**Name of Committee Members & Designation**			**Duties and Responsibilities**
		Name of Faculty	**Designation**	**Position**	a) To provide the necessary information about various competitive examinations to the students. b) To provide information about various careers available in the competitive world. c) To organize various career development seminars and workshops. d) To invite experts from various companies to interact with students. **Frequency of Meeting:** Twice in a Semester
1.	Student Welfare Committee (SWC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr.G.Lakshmana	Asst.Prof-ECE	Member	
4.		Mrs.R.Pravallika	Asst.Prof -CSE	Member	
5.		Mr.P.Bharath Kumar.P	Asst.Prof -EEE	Member	
6.		Mrs.S.Kalyani	Assoc.Prof -IT	Member	
7.		Mrs.B.Swathi	Asst.Prof -MECH	Member	
8.		Mrs.A.Venkata Lakshmi	Asst.Prof -MBA	Member	
9.		Mr.B.Nagabhushan Rao	Asst.Prof -BS&H	Member	
10.		Mrs.T.Sandhya Kumari	Assoc.Prof -ECE	Coordinator	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) Plan and conduct National level/state level student seminars, workshop, live model exhibitions, sports, games and cultural events. b) Prepare a budget estimate for the conduct of various co-curricular and extracurricular activities. c) Select students to be deputed for co-curricular and extra-curricular activities outside the college. **Frequency of Meeting:** Twice in a Semester
1.	Extra-curricular Activities Committee (ECAC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Dr.K.Vijaya Kumar	HoD-CSE	Member	
4.		Dr.Ch.Ramesh Babu	HoD-ECE	Member	
5.		Dr.K.Durga Syam Prasad	HoD-EEE	Member	
6.		Dr.B.Prakash	HoD-IT	Member	
7.		Dr.V.Anandababu	HoD-MECH	Member	
8.		Dr.M.Pardha Saradhi	HoD-MBA	Member	
9.		Dr.K.Chaitanya	HoD-BS&H	Member	
10.		Ms.B.Santhi	Physical Director	Member	
11.		Department Association Members		Member (s)	
12.		Mr.P.Anil Kumar	Asst.Prof.-MECH	Coordinator	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) Receive budgetary requirements consolidated by the Principal which are submitted by various HODs. b) Recommend proposals for infrastructural improvement periodically. c) Recommend APAC the new courses to be started. d) Initiate Programs for conduction GATE, CRT, PDP classes, Soft Skills Training, Certification Courses, Bridge Courses, Add-on Courses for the students. e) Act as a link between APAC and college administration. **Frequency of Meeting:** Once in aYear
1.	College Development Committee (CDC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr.N.Srikanth	Executive Director	Member	
4.		Dr.K.Vijaya Kumar	HoD-CSE	Member	
5.		Dr.Ch.Ramesh Babu	HoD-ECE	Member	
6.		Dr.K.Durga Syam Prasad	HoD-EEE	Member	
7.		Dr.B.Prakash	HoD-IT	Member	
8.		Dr.V.Anandababu	HoD-MECH	Coordinator	
9.		Dr.M.Pardha Saradhi	HoD-MBA	Member	
10.		Dr.K.Chaitanya	HoD-BS&H	Member	
11.		Dr.P.S.Ravindra	Dean-Admin	Member	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) Accept and review the purchase proposals/quotations received from different departments. b) Conduct the negotiations with suppliers for the best quality & price. c) Make recommendations to the Management for placing the purchase orders. **Frequency of Meeting:** Twice in a Semester
1.	Purchase Committee (PC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr.N.Srikanth	Executive Director	Member	
4.		Dr.K.Vijaya Kumar	HoD-CSE	Member	
5.		Dr.Ch.Ramesh Babu	HoD-ECE	Member	
6.		Dr.K.Durga Syam Prasad	HoD-EEE	Member	
7.		Dr.B.Prakash	HoD-IT	Member	
8.		Dr.V.Anandababu	HoD-MECH	Member	
9.		Dr.K.Chaitanya	HoD-BS&H	Member	
10.		Mr.B.Tirupathi Rao	I/c Purchase Dept.	Member	
11.		Lab In-charge of Concerned Department		Member	
12.		Sr.Faculty of Concern Department		Member	
13.		Mr.D.Kesava	Asst.Prof-MECH	Coordinator	
Sl.No	**Committee Name**	**Name of Committee Members & Designation**			**Duties and Responsibilities**
		Name of Faculty	**Designation**	**Position**	a) Recruit teaching and non-teaching faculty as per the requirement in each discipline fulfilling the cadre ratio of AICTE by following 3-tier procedures (written test/Interview, Teaching Demo and HR skills). b) Define the roles and responsibilities for all positions. c) Analyze recruitment trends and provide feedback to APAC **Frequency of Meeting:** Once in a Semester
1.	Faculty Recruitment Committee (FRC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr.N.Srikanth	Executive Director	Member	
4.		Dr.K.Vijaya Kumar	HoD-CSE	Member	
5.		Dr.Ch.Ramesh Babu	HoD-ECE	Member	
6.		Dr.K.Durga Syam Prasad	HoD-EEE	Member	
7.		Dr.B.Prakash	HoD-IT	Member	
8.		Dr.V.Anandababu	HoD-MECH	Member	
9.		Dr.M.Pardha Saradhi	HoD-MBA	Member	
10.		Dr.K.Chaitanya	HoD-BS&H	Member	
11.		Internal Examiner of the concerned Department		Member	
12.		External subject expert		Member	
13.		Dr.P.S.Ravindra	Dean-Admin	Coordinator	

Sl. No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) To post updates regarding activities of college in social networks. b) Contact students to know about their designations, and their employers. c) To arrange guest lectures by the alumni to make the students understand the requirements of the corporate companies. d) Gather the information of passed out students pursuing higher degrees. **Frequency of Meeting:** Once in Year
1.	Alumni Committee	Dr.J.Sudhakar	Principal	President	
2.		Prof.A.Sesha Rao	Academic Director	Advisor	
3.		Mrs.T.Sandhya Kumari	Assoc.Prof-ECE	Vice President	
4.		Dr. Dominic Souri	Assoc.Prof-BS&H	Joint Secretary	
5.		Dr. S Ramesh	Assoc.Prof-MBA	Treasurer	
6.		Sr.Faculty from Each Department		Executive Member	
7.		Dr.Ch.Ramesh Babu	HOD-ECE	General Secretary	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) To plan and execute N.S.S. Programmes for the year. b) To conduct Special N.S.S. camp and to submit the audited statement of accounts at the end of the year. c) To distribute the work for the NSS volunteers for maintenance of cleanliness in and around the College. d) To take care of campus beautification and gardening. e) To maintain the records of the activities conducted and submit the same to the IQAC, JNTUK. **Frequency of Meeting:** As and when necessary
1.	N.S.S. Committee	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr.K.Sunil Kumar	Asst.Prof-ECE	Member	
4.		Mr.L.Jagajeevan Rao	Asst.Prof -CSE	Member	
5.		Mrs.T.Sushma	Asst.Prof -EEE	Member	
6.		Mr.S.Sagar	Asst.Prof -IT	Member	
7.		Mrs.P.Prasanna Kumari	Asst.Prof -MECH	Member	
8.		Mrs.T.Suguna	Asst.Prof -MBA	Member	
9.		Dr.K.P.Suhasini	Assoc.Professor-BS&H	Programme Officer	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) To make the students aware of the various schemes / assistance / scholarships available for students. b) To scrutinize scholarship forms of the students and ensure to submit / process the same on time to the respective Department. c) To maintain the records and submit the same to the IQAC Committee. **Frequency of Meeting:** Once in Year
1.	Scholarship Committee	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Dr.K.Vijaya Kumar	HoD-CSE	Member	
4.		Dr.Ch.Ramesh Babu	HoD-ECE	Member	
5.		Dr.K.Durga Syam Prasad	HoD-EEE	Member	
6.		Dr.B.Prakash	HoD-IT	Member	
7.		Dr.V.Anandababu	HoD-MECH	Member	
8.		Dr.M.Pardha Saradhi	HoD-MBA	Member	
9.		Dr.K.Chaitanya	HoD-BS&H	Member	
10.		Mr.K.Rajendra Prasad	Asst.Prof-ECE	Member	
11.		Mr.P.Mohan Ganesh	Asst.Prof-IT	Member	
12.		Mr.S.A.Ramakrishna Raju	A.O.	Member	
13.		Dr.P.S.Ravindra	Dean-Admin	Coordinator	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) To assess the editorial quality of the content to be published which includes programs of the college, information regarding the events organized in the college under various committees. b) To collect the information from staff and students relevant for publication under various headings. c) To get the magazine printed by the end of every quarter in and distribute the same to students and staff **Frequency of Meeting:** Once in every quarter
1.	Institute Newsletter Committee	Dr.J.Sudhakar	Principal	Chairman	
		Prof.A.Sesha Rao	Academic Director	Member	
2.		Dr.P.Sudhakar	Assoc.Prof-ECE	Member	
3.		Mrs.Rahimunnisa Shaik	Asst.Prof -CSE	Member	
4.		Mr.V.V.Sai Santhoshi	Asst.Prof -EEE	Member	
5.		Mr.B.Ajay Kumar	Asst.Prof -IT	Member	
6.		Mr.S.V.Satya Prasad	Asst.Prof -MECH	Member	
7.		Mrs.A.Venkata Lakshmi	Asst.Prof -MBA	Member	
8.		Mr. B.Nagabhusana Rao	Asst.Prof -BS&H	Member	
9.		Mr. S.K.Chaitanya Ch	Asst.Prof - BS&H	Editor	
10.		Dr.T.Radha Kriahna Murty	Professor-BS&H	Chief Editor	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) To maintain and enforce strict discipline within the college campus. b) All the students should wear their ID Cards while they are in the campus and their respective class rooms. c) To monitor the movement of the students in the college. d) To ensure that students maintain complete silence in the library. e) To maintain proper discipline in the college canteen and student waiting room during the college working hours. **Frequency of Meeting:** As and when necessary
1.	Discipline Committee	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr. B. Sai Bharadwaj	Assoc.Prof-ECE	Member	
4.		Dr.P.Vijaya Bharathi	Asst.Prof -CSE	Member	
5.		Mrs.K.Therissa	Assoc. Prof -EEE	Member	
6.		Mr. Ch.Ramasuri A N	Asst.Prof -IT	Member	
7.		Dr.V.Ananda Babu	Asst.Prof -MECH	Member	
8.		Mrs.M.Satyavathi	Asst.Prof -MBA	Member	
9.		Mr.S.Giri Babu	Asst.Prof -BS&H		
10.		Mrs.B.Santhi	Physical Director	Member	
11.		Dr.P.S.Ravindra	Dean-Admin	Member	
12.		Dr.G.V,Rama Krishna Rao	Assoc.Prof-EEE	Coordinator	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) To administer data acquisition process, update and maintenance of the institute's website with regard to all activities related to Domain & Hosting. b) To collect information & data reports from various academic departments & internal bodies and timely updates c)To provide feedback and recommendations to the authority with regard to the website maintenance activities from time to time. **Frequency of Meeting:** As and when necessary
1.	Website Maintenance Committee (WMC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr.D.Tilak Raju	Asst.Prof-ECE	Member	
4.		Mrs.G.Sandhya	Asst.Prof -CSE	Member	
5.		Mr.K.V.Sri Ram Prasad	Asst.Prof -EEE	Member	
6.		Mr.P.Mohan Ganesh	Asst.Prof -IT	Member	
7.		Mr.P.Anil Kumar	Asst.Prof -MECH	Member	
8.		Mrs.M.Sowjanya	Asst.Prof -MBA	Member	
9.		Mr. K.Murali	Asst.Prof -BS&H	Member	
10.		Dr.P.S.Ravindra	Dean-Admin	Member	
11.		Mr.Gandi Netaji	Asst.Prof -IT	Coordinator	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) To create an environment for self-employment, promote innovation and Entrepreneurship development through various programs b) To introduce the concept of Entrepreneurship as a part of the curriculum c) To promote employment opportunities. d) To provide a platform for interaction with entrepreneurs. e) To conduct skill industrial development training programs with updated technologies. **Frequency of Meeting:** Once in every semester
1.	Entrepreneurship Development Committee (EDC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Dr.K.Vijaya Kumar	HoD-CSE	Member	
4.		Dr.Ch.Ramesh Babu	HoD-ECE	Member	
5.		Dr.K.Durga Syam Prasad	HoD-EEE	Member	
6.		Dr.B.Prakash	HoD-IT	Member	
7.		Dr.V. Ananda Babu	HoD-MECH	Member	
8.		Mr.M.Eswar Teja	Asst. Prof-MECH	Member	
9.		Ms.V.V.Sai Santhoshi	Asst. Prof- EEE	Member	
10.		Mr.L.Jagajeevan Rao	Asst. Prof- CSE	Member	
11.		Mrs.B.Manjula	Asst. Prof- ECE	Member	
12.		Dr.S.Ramesh	Assoc. Prof-MBA	Coordinator	

Sl.No	Committee Name	Name of Committee Members & Designation			Duties and Responsibilities
		Name of Faculty	**Designation**	**Position**	a) To give industrial exposure to faculty members and students, thus enabling them to tune their knowledge to cope with the industrial culture. b) To assist the Departments in organizing workshops, conferences and symposia with joint participation of the industries. c) To organize industrial visits for Faculty members and students. d) To assist the Departments in establishing rapport with industries for taking up mini projects and projects. **Frequency of Meeting:** As and when necessary
1.	Industry Institute Interaction Committee (IIIC)	Dr.J.Sudhakar	Principal	Chairman	
2.		Prof.A.Sesha Rao	Academic Director	Member	
3.		Mr.D.Tilak Raju	Asst. Prof-ECE	Member	
4.		Mr.R.Ravi	Asst.Prof -CSE	Member	
5.		Mr.B.T.Rama Krishna Rao	Asst.Prof -EEE	Member	
6.		Mr.P.Mohan Ganesh	Asst.Prof -IT	Member	
7.		Mr.M.Eswar Teja	Asst.Prof -MECH	Member	
8.		Mrs.T.Suguna	Asst.Prof -MBA	Member	
9.		Dr.P.Sudhakar	Assistant P.O	Member	
10.		Mr.K.Krishna Kishore	Assistant T.O	Member	
11.		Dr.K.V.Ramana Rao	HoD-T&P	Coordinator	

10.1. (E) Service Rules and Regulations

The Institute has a well-framed Human Resource Policies and Administrative Practices manual consisting *recruitment policies and procedures*, *duties and responsibilities*, *service rules and regulations and motivational incentives* which is revised from time to time. The last revision was done and published in October 2019 and displayed in institute website (http://view.edu.in/admsrpp.php). The following are the list of contents of the book.

The human recourse policies and administrative practices manual of the organization is published and kept for everyone's reference in College website. This allows for effective dissemination of the information to the concerned stakeholders. Few of the contents of hand book illustrated below.

A. Service Conditions

The employees in the institute are governed by the service rules and regulations stipulated hereunder.

a) The employees at Vignan's Institute of Engineering for Women have been classified into two categories, namely Teaching and Non- Teaching.
b) The teaching fraternity has an extraordinary role to play in the academic life of VIEW, merely as teachers, researchers, counselors, and contributors in various academic affairs.
c) The Non-Teaching fraternity is responsible to support and enable the academics at the institution.
d) VIEW has various Departments of Engineering, Sciences, and Humanities. Each of these faculties consists of various roles and run under the supervision of Principal.
e) A person shall be deemed to have been appointed to the service when his appointment is made to a post in accordance with the existing AICTE norms.
f) Initially the appointment of the selected candidate will be temporary and placed on probation for a period of two years, after which the performance of the appointee will be reviewed to regularize the appointment. The period of probation can be extended by management in case of non- satisfactory performance

g) If a person, having been appointed temporarily to a post is subsequently appointed regularly: he / she shall commence probation from the date of regular appointment.

h) Any candidate appointed on temporary / ad- hoc basis, his / her services can be terminated without any notice and without giving any reason.

i) The service conditions of the incumbent will be governed by the rules and regulations of the college issued from time to time.

(i) Custody of Certificates

The employee requires depositing the original certificates (SSC/ Intermediate / UG/ PG) (convocation) with the establishment section prior to or at the time of reporting duty, besides, the copies of experience certificate, relieving letter, salary certificate, PAN, Voter – ID and 4 passport size photographs require submitting.

(ii) Withdrawal of Original Certificates

a. Withdrawal of educational certificates (all or part) for any purpose i.e. higher studies or any other purpose, a proof copy has to be enclosed along with the request letter.

b. An undertaking letter should be submitted stating that she / he will return the certificates within the stipulated time or else salary will be held up for the concerned month till the submission of certificates.

c. Those who are withdrawing certificates for higher studies should submit a copy of custodian within one week of date of issue of custodian.

(iii) Working Hours

a. All employees are required to work for a minimum of 7 hours a day from Monday to Saturday.

b. Working hours notified may be changed as per the requirement of the Institution from time to time and the employees shall comply accordingly.

(iv) Attendance

a. All employees shall mark their attendance through biometrics and in respective Attendance Registers maintained in the office of the College.

b. Employees reporting for duty more than 20 minutes late shall obtain permission from the Head of the Department / Principal. Without a formal permission they are deemed to be absent and will apply for leave.

c. All employees are allowed to avail 2 hour permission in two days during a month. Exceed this liable to be treated as absent for the day.

(v) Meeting with Heads of Departments

Meeting with Heads of Departments is conducted once in a month to brief them about the latest developments in the college and also to get feedback from them regarding fulfillment of various targets set including the academic schedule. Minutes of the meeting shall be recorded and circulated among all the HOD's. Emergency meetings are organized whenever required.

(vi) Faculty Meeting

Total faculty meeting is conducted once in a semester. The agenda of the meeting is circulated among the faculty at least two days in advance to enable the participants to come prepared for a fruit full discussion without loss of time. The minutes of the meeting are recorded and circulated immediately after the meeting. Emergency meeting could be called for whenever required.

(vii) National & Festival Holidays

Institution will notify list of holidays at the beginning of calendar (year) as per the National and Festival Holidays Act.

B. Leave Policy

VIEW provides different kinds of leave to meet with the various eventualities of its employees. Availing of leave should be with proper notice so that the work of the organisation does not suffer. Leave shall not be claimed as a right. Leave sanctioning authorities have to use their discretion in sanctioning the leave so that the effect is minimum on the normal functioning of the college.

General Information:

a) These rules shall be called the "Vignan's Institute of Engineering for Women, Leave Rules".

c) A leave account shall be maintained for each employee in the appropriate form.

d) Leave cannot be claimed as a matter of right. **The sanctioning authority has full discretion to refuse or revoke leave of any description when the exigencies of service so demand**.

f) The sanctioning authority may recall an employee to duty before the expiry of his / her leave.

g) Unauthorized absence from duty may be treated as misbehavior involving disciplinary action.

h) For casual leaves, the HOD shall be the competent authority to grant leave to staff, the Principal shall be the competent authority to grant leave to all Heads. In the case of the Director and the Principal, the Secretary or the Chairman of the Governing Council will be the authority competent to sanction leave.

The following types of leaves are available for staff:

(i) Casual Leave:

a) Every employee is eligible for 10 days of casual leave in a calendar year.

b) Casual leave cannot be availed without obtaining prior approval. Sanction of casual leave shall be subject to work adjustment.

c) The total period of absence on casual leave at a time, with or without combination of public holidays and compensatory casual leave shall not exceed 8 days.

d) Casual leave can be combined with public holidays and compensatory casual leave, but not with any other kind of leave or vacation.

e) Casual leave up to Two Days shall be sanctioned by the HOD subject to prior notice i.e. at least before one day.

f) CL for more than Two Days shall be sanctioned by the HOD subject to prior intimation of at least one Week.

g) Casual leave for more than Two Days where sufficient notice period of one week is not provided by the employee may only be sanctioned by the Principal under extraordinary situations subject to prior intimation of at least one day.

h) Un-availed leave shall not be carried over to the next calendar year. It means that the casual leave may not be accumulated.

i) In case of employees still serving the probation period, Casual Leave shall be sanctioned on pro-rata basis. It means that they shall be eligible for a maximum of one day of casual leave for every $1_{1/3}$ month of completed service subjected to a maximum of 10 days in a calendar year. This condition shall not be applied to permanent employees.

j) Casual leaves for half day can be granted to an employee for the Forenoon or Afternoon session.

(ii) Earned Leave:

a) All the permanent employees are eligible for 6 days of earned leave per every calendar year of completed service

b) EL for a given calendar year shall be credited on the 1st of January of the following year provided that the staff should have completed **Two years** of uninterrupted service at VIEW by that time.

c) Earned Leaves can be accumulated up to 120 days.

d) Earned leave cannot be combined with casual leave or compensatory casual leave, but can be combined with pre-vacation and all other kinds of leaves. The maximum availability of earned leave utilization at a continuous stretch is 50% of overall ELs or 15 leaves whichever is less subject to a minimum of 3 ELs sanctioned by the HOD subject to prior intimation of at least one week. There should be a minimum 1-month gap between one slot to another slot for usage of ELs.

e) However, if such maximum exceeds the available EL count, then the eligibility is the total available EL count.

f) Accumulated leaves cannot be encashed at the time of working but can be encashed at the time of leaving the Institution.

g) Principal is the authority to sanction earned leave to all faculty members.

(iii) Maternity Leave:

a) All the women permanent employees are eligible for 120 days of paid maternity leave provided that they have completed probation service by the date of application.

b) A woman permanent employee is eligible for maternity leave only twice in her entire service.

c) Principal shall sanction maternity leave to all the women employees provided that the staff should apply with the prior notice of at least one Month.

d) The salary for the period of maternity will be paid out in six equal installments after six months uninterrupted service from the date of rejoining. The employee should submit the Birth Certificate of the child at the time of rejoining.

e) No leave beyond the expiry of maternity leave will be granted. However, in exceptional cases where the female employee is not in a position to join duty immediately on expiry of maternity leave due to weakness or other illness, leave without pay not exceeding 30 days

may be granted on production of medical certificate. Further leave beyond 30 days may be considered at the discretion of the GC/Committee.

(iv) Paternity Leave:

a) All the men permanent employees are eligible for 7 days of paid paternity leave provided that they have completed probation service by the date of application.

b) A man permanent employee is eligible for paternity leave only twice in his entire service.

c) Paternity leave may be utilized only within a month of the date of birth of the child.

d) Principal shall sanction paternity leave to men employees provided that the staff should apply with the prior notice of at least one Month.

e) The salary for the period of paternity leave will be paid out after submitting the Birth Certificate of the child.

(v) Marriage Leave:

a) All the Permanent employees are eligible for 15 days of marriage leave.

b) Principal shall be the sanctioning authority to all the employees provided that the staff should apply with the prior notice of at least one Month.

c) The salary for the period of marriage leave will be paid out after submitting the Marriage Certificate.

(vi) Academic Leave:

a) All teaching staff members are eligible to attend two reputed conferences per year.

b) Academic leave may be sanctioned for attending conferences, seminars and workshops etc. which help the faculty to achieve professional growth.

c) Principal shall sanction academic leave to all the faculty members. However, the staff should submit necessary proofs such as the event invitation along with the application.

d) All permanent staff members, who are at the verge of submitting their Ph.D thesis, may apply for one month of academic leave after pre-talk. However, such candidates should submit a proof of pre-talk proceedings for availing leave and proof of submission of thesis within three months from the date of application of the leave failing which the academic leave will be deducted from all other eligible leaves.

e) The salary for the period of such doctorate thesis submission based academic leave will be paid out after submitting the proof of thesis submission.

(vii) On Duty:

a) On duty for spot valuation shall be sanctioned only twice in a semester or a Maximum of 15 days per year whichever is applicable.

b) On duty for any other Examination related works like observer, Lab external duties should not exceed 5 days in a year. If, exceeds 5 days the approval of HOD/Principal is mandatory.

c) In addition to the above, "on duty" for any works assigned by HOD/Principal/Management may be approved by Principal. However, the staff should submit necessary proof of evidence along with the invitation/work/assignment.

(viii) Emergency/Medical Leave:

a) Every permanent employee is eligible for 8 days of Emergency/Medical leave in a calendar year.

b) Un-availed medical leave shall not be carried over to the next calendar year. It means the Medical leave shall not be accumulated.

c) Medical leave cannot be claimed as a matter of right and sanction of Medical leave shall be subjected to severity of Health condition. That means prior approval/sanction is required or Evidences can be submitted within one week of reporting to the institute post the illness.

d) Medical leave up to One Day shall be sanctioned by the HOD/Principal after completion of all casual leaves.

e) Medical leave for More than One Day shall be sanctioned by the Principal only. However, the staff should intimate in-advance to the HOD & Principal wherever possible and also submit the necessary proof of evidences for medical illness within one week of reporting to the institute post the illness.

f) Medical leave for a period exceeding 8 days shall be approved at the sole discretion of the principal in consultation with the management.

(ix) Compensatory Casual Leave:

a) All the employees are eligible for compensatory casual leave if they have approved "OTs".

b) The staff who has worked at least 6 continuous stretch or cumulative hours assigned/authorized by HOD/Principal/Management in holidays shall be sanctioned "OT". The approved OT shall be compensated with CCL during the same calendar year.

c) Principal is the sole approving authority for OTs in consultation/approval of the HOD

(x) Extra-ordinary Leave:

a) Extra-ordinary leave may be granted to the employees on the recommendation of the Governing body on private affairs or academic affairs like short / long term assignments in India or abroad/Higher studies/Fellowship etc. They will not be entitled for any pay or allowance during this period.

(xi) Special Casual Leave:

a) All permanent employees are eligible for special casual leave not exceeding 6 days for the purpose of undergoing Family Planning Operation. He/she is required to produce proof of having undergone the operation for regularizing the leave availed.

b) Any humanitarian grounds issues such as miscarriage/loss of immediate family members may be also considered for special casual leave.

c) Principal, in consultation of the management, shall be the sole authority to sanction Special Casual Leave.

(xii) Study Leave

a) An employee may be granted study leave to enable him to undergo part time higher studies or course work or specialized training in a professional or technical subject and close connection with the branches of study relevant to the College and has bearing on the candidates' area of specialization.

b) Study Leave shall not be granted to one, whose absence will cause cadre-difficulties, besides dislocation in the regular work of the college.

c) In case candidate pursues Ph.D. on part – time basis, study heave will be granted to fulfill the mandatory course work as stipulated by the University. The candidate may be given half pay during the study leave.

d) An employee availing himself of study leave for pursuing higher studies, shall furnish a bond in the prescribed form and on stamped paper to serve the College on return to duty they must serve in the College for a minimum period of one year. Otherwise, they have to pay double of salary received during the study leave.

e) They should make alternative arrangements for their theory and lab classes with prior approval. SL permission will be granted only if they make alternative arrangement for their classes, through a teacher handling subject for the same class.

(xiii) Summer Vacation:

a) Principal will be the competent authority to fix/suffix the summer vacation schedule in accordance with JNTUK schedule wherever applicable.

b) Each department has to maintain a skeletal staff to attend department works like invigilation duties, class work and other works assigned by HOD/Principal during the vacation as determined by the Principal.

c) Schedule of vacation for all the employees in a department is to be approved by the HOD.

d) By the time of declaring vacation, the staff should have at least 1 year of uninterrupted service at VIEW to avail summer vacation.

e) If any faculty attend spot valuation or engaged with any other examination related duties during the vacation, all those days will be included in summer vacation. No extra days will be allowed.

f) Vacation Eligibility criteria for Permanent Teaching staff:

One-week Vacation	The staff members who have >=1 and <2 years of service at Vignan Group.
Two-week Vacation	The staff members who have >=2 and <3 years of service at Vignan Group.
Four-week vacation	The staff members who have >=3 years of service at Vignan Group.

(xiv) Other terms & conditions:

a) Permanent Employee: An employee is considered to be permanent on completion of one year of uninterrupted service in the institute.

b) Temporary employees are not eligible to avail any kind of extraordinary leaves except casual leaves, academic leaves and On-duty.

c) The total number of staff availing “CL” of any department at any given point of time should not exceed 1/3rd of the total staff of the same department at such instance.

d) If any employee would like to leave the organization by giving one-month notice, they will not be allowed to avail any type of leave except available CL as per pro-rata. If they use extra leaves, loss of pay will be implemented. They can compensate the extra leaves by working extra days to avoid loss of pay. One-month notice can be exempted by the Principal if staff resigned at the end of semester/academic year.

e) Employees are advised to contact HR department to know the leave record and then apply for leave.

f) Prefixing and Suffixing of Holidays: The leave under these rules (except casual leave) may be either prefixed or suffixed or both by Sundays/holidays but the intervening Sundays /holidays shall be included in such leave.

g) Over Staying after Leave: An employee who remains absent after the expiry of his/her originally granted or subsequently extended leave is not entitled to salary for the period of absence including sanctioned leave period.

C. Recruitment Policy & Process

(i) Objective

To have in place a competent staff selected on the principles and practices of equal opportunities with due representation to all sections of people represented by the organisation and with no discrimination on the basis of caste, creed, sex, race, or disability. All recruitment will be based on predetermined specific positions and competency.

(ii) General Criteria Governing Recruitment

a. The minimum age for recruitment is 18 years. VIEW does not permit child labour in any of its establishments nor does it encourage child labour in any of its partner institutions.
b. Age limit of up to 70 (Seventy) years for teaching staff and 65 (Sixty-Five) years for non-teaching staff is recommended. If service is required beyond the recommended age limit, it may be extended on an annual basis.
c. VIEW reserves the right to do a background check on any person selected for employment.
d. Persons selected for appointment should possess sound mental and physical health.
e. Faculty Members are recruited based on the qualifications prescribed by AICTE Regulations, 2019 and subsequent amendments in these Regulations issued by AICTE from time to time.

f. Non-teaching faculty/Administrative staff is recruited as per the state government's norms. At present the following criterion is being followed.

(iii) Internal Appointments

In order to avoid stagnation of the competent employees and encourage career growth, Management should develop mechanism for creating avenues for growth/promotion.

When a vacancy arises, internal appointment may be promoted as far as possible. But this is purely at the discretion of the E.D and Principal who may assess the situation objectively on the basis of the merits of the fresh requirements and actual staff position.

(iv) Advertisement

a. The Dean of Administration will be responsible for initiating action such as advertising for the vacancy.
b. For regular and contract posts, it is mandatory to advertise the vacancies in the newspaper or VIEW website (www.view.edu.in).
c. There should be a minimum of 10 days between the date of publication of the advertisement and interview.

(v) Short listing

a. All applications are scrutinized to ensure that they conform to the minimum requirements of the position.
b. Persons given as reference in the application may be contacted to further refine the short list.
c. For a single post, from the suitable applications received, an appropriate number will be called for the interview process.
d. Intimation for interview is sent thereafter.

(vi) Assessment process

The assessment process for teaching staff recruitment shall have all of the following assessments:

Round-1: Written Test

Round-2 Technical Round (Demo in front of Panel Members)

Round-3: HR Round (With Executive Director)

[It is only for shortlisted candidates from the above rounds].

(vii) Interview Panel

The interview panel must meet in advance in order to prepare and agree questions, tests etc. to be asked to candidates and to ensure that similar questions and the same range of topics will be covered for each candidate for the same position.

For the test and interview – the appropriate panel must be constituted which should have subject specialists. The final interview panel will comprise of the appointing authority and subject specialists.

(viii) Proceedings of Interview

Detailed proceedings of the interview will be recorded by the Chairperson of the Interview Board and will be attested by the Interview Board Members.

(ix) The Offer Letter

Upon satisfactory performance of the candidate, the Offer Letter is sent to the selected candidate. Candidates should confirm their acceptance in writing. A regret letter might be sent to candidates not found suitable during the interview.

(x) Letter of Appointment

The selected candidate must bring the relieving order from the previous organisation before joining duty. An appointment letter duly signed by the Appointing Authority is issued to the candidate at the time of joining.

(xii) Joining Report

On joining, the candidate should give the joining report and signed by the Principal and forwarded to the Main Office.

D. Staff Appraisal Policy

(i) Purpose

In an effort to recognize and reward the performance of employees, it is the organization's philosophy that the principal component to enhance compensation shall be through annual increment based on performance evaluation by APAC.

(ii) Application of the Policy

a. The policy applies to all teachers, including the Head of the Departments, employed by the Institution except those who have less than one-year service.

b. All regular employees are eligible for yearly increment based on the results of their Performance Appraisal conducted annually.

c. All employees will be informed in writing about their annual increments after the Performance Appraisal.

(iii) General Principles Underlying this Policy

The performance of staff assessed through **3 criterions** for the purpose of annual increment.

Criteria No.	Element of Criteria	Max. Score	% of Weightage
I	Academic Results & Feedback	4 Marks	40%
II	Research & Development	3 Marks	30%
III	Supplementary Activities	3 Marks	30%
Total		**10 Marks**	**100%**

Criterion -1 is mainly focused on the academic performance of staff which covers the teaching related activities, domain knowledge, semester results and students feed back in an academic year.

Criterion -2 is mainly considered the faculty output in Research and Development activates in an academic year. Based on cadre of faculty, the expected output of R&D shall be categorized. R & D activities includes Research papers published in scholarly journals, Book publications, research projects, consultancy projects, organizing and attending conferences/seminars, workshops and FDPs.

Criterion -3 covers curricular and extracurricular activities, counseling/mentoring of students, roles and contributions in Institutional Governance and administration, awards and achievements and Professional Development Activates.

The detailed evaluation procedure of each criterion is given in Institution manual.

(iv) Grant/Award of Annual Increments:

Increments shall be sanctioned by the Management as recommended by the Principal. The grant of number of increments is based on the score secured by the faculty out of the total score of 10.

Secured Score	Grade	No. of Increments
>= 7.5	A+	3 (Three)
<7.5 & >=6.5	A	2 (Two)
<6.5 & >=5	B	1 (One)
<5	C	No Increment

(v) Special Allowance

a. Teaching Staff with a cadre of Assistant Professor secured <6.5 & >=5 marks (1 increment) and secured full marks in results as per Criteria-1 (3 out of 3), the faculty will be given a onetime special allowance of Rs.5,000/-

(vi) Termination/Serving Notice to Teaching Staff

a) If a teaching staff falls in 'B' grade in 2 continuous years, the Management/Principal have right to terminate or service one month notice to staff for termination due to lack of improvement in performance.

b) If a teaching staff falls in 'C' grade, the Management/Principal have right to terminate the faculty immediately or service one month notice to staff for termination. In special cases, the Principal shall allow an opportunity to improve the performance with in one academic year.

(vii) Letter of Annual Increment:

All employees will be informed in writing about their annual increments after the Performance Appraisal.

E. Staff Promotion Policy

Any progressive institution should make sufficient provision for the satisfactory promotion of personnel to higher positions. Opportunity for promotion to higher positions within an organisation gives personnel an opportunity to fully utilize their abilities and therefore serves as a basis for motivation.

General Principles underlying this Policy

- ✓ The promotion of an employee is purely based on the merit cum seniority basis and vacancy position in the concerned department.
- ✓ All promotions shall be subject to completion of minimum qualifying period and other requirements such as employee's current academic performance, their research work, number of publications, commitment of the staff to the improvement of the institution etc.
- ✓ Promotion shall not be influenced by the employee's race, religion or gender.
- ✓ The promotion from Assistant professor to Associate Professor and Associate Professor to Professor post are purely vacancy based.
- ✓ Promotion are considered by a Committee consisting of the following:
    - Principal of the college concerned
    - Principal of another college within the group

- HoD of the Department concerned
- One Senior Professor of the Department and college concerned
- HoD/Two Senior Faculty of concern Department of another college within the group

✓ The Screening Committee will review the performance appraisal, academic performance and other capabilities of each candidate and personally interview the candidates.

✓ The Committee, based on the above factors, shall prepare a list of candidates recommended for promotion in the order of merit and submit for approval. The list will be placed before the Governing Council along with the Service Register of the individuals for approval. The approved candidates shall be promoted from the rank of Assistant Professor to Associate Professor or Associate Professor to Professor.

✓ Those who are promoted shall be placed in the pay scale applicable to that category.

✓ All decisions on promotions shall be taken up in the month of June-July every year. However, the revised pay will be implemented with effect from the date of acquired Doctorate Degree/Submission of Provisional Certificate in case of Associate Professor and date of next increment due in case of Professor.

✓ Filling up of any post's consequent to retirement, resignation, termination, cessation of employment, transfer, demotion, promotion etc. of permanent incumbent shall not be automatic and will be done at the discretion of the Chairman/CEO/Principal.

✓ For Non-Teaching staff, time-bound Grade Promotions as stipulated in the Pay Revision will be granted.

F. Welfare Facilities for Staff

(i) Provident Fund

VIEW is committed to comply with statutory provisions of Employees Provident Fund Deduction will be made from the salary of employees and will be deposited to the designated provident fund accounts along with the contribution of the organisation as per the provisions of the said Act. Employees must comply with the statutory requirements like nomination and can avail of such ensuing benefits as prescribed by law.

(ii) Employees State Insurance (ESI)

For Non-teaching Technical and Admin Staff - Employees State Insurance benefit (ESI) is covered for those employees who are coming under the purview of the ESI Act, 1948. The ESI

benefits are Medical benefit, Sickness benefit, Maternity benefit, Disablement benefit, Dependents benefit, funeral expenses and other benefits.

(iii) Group Medical Insurance

To provide employee welfare through basic assurance of healthcare to employees and help them to meet unforeseen personal expenses arising from medical emergency. All regular and contractual employees of the Institute, including probationers will be covered. Annual entitlement of Group Medical Insurance is Rs.5,00,000/- (Rupees Five Lakh only). This can be used only by the individual or by the family members covered under this policy.

(iv) Subsidized Transport Facility

The institute buses are running on "No profit – No loss" basis.

- All the staff members who are drawing a salary of less than Rs.15,000 will be provided a free transport facility.
- The staff who are drawing a salary of above Rs.15,000 but less than Rs.20,000 will be given 50 per cent concession in transport charges.
- The staff who are drawing a salary of above Rs.20,000 will be given 40 per cent concession in transport charges.
- The applicable bus fees will be deducted from the salary of faculty.

(v) Free boarding and Lodging

Free boarding and lodging for certain faculties, Staff holding students hostel coordinator/student hostel sports coordinator/Assistant Warden Post.

(vi) Free Tea / Coffee is provided to the Teaching, Non-Teaching and Administrative staff during both the sessions.

(vii) Non-Teaching staff, Maintenance Staff and the Drivers are given free gifts, sweets and cloths during Deepavali festival.

(viii) Travelling Allowance:

Travelling allowance is in the nature of reimbursement of reasonable expenses incurred by the employee while travelling and halting at an outstation on official duty. All journeys shall be authorized by the competent authority i.e. Principal and necessary approval shall be obtained prior to proceeding on an official tour.

The Principal may sanction TA advance subject to the maximum of 75% of the expected expenditure. The mode of travel applicable, the daily allowance payable and the rates of local

conveyance and accommodation charges reimbursable to various categories of employees are as follows.

Mode of Travel:

1. Director/Principal/Vice Principal	-	Airfare/First A/c
2. Professor/HOD	-	Second A/c
3. Associate Professor	-	Third A/c
4. Assistant Professor	-	Sleeper

Reservation charges, AC/Super fast surcharge, cancellation charges, bedroll charges are reimbursable. Normal service charges for booking of tickets by travel agent are admissible.

The institution may reserve and book to and fro air tickets through local travel agents. For rail and bus tickets, the person intending to travel may take necessary advance for booking such tickets.

(ix) Daily Allowance& Reimbursement of Accommodation

Cadre	Daily Allowance (Per day)	Reimbursement of Accommodation (Per day)
Director/Principal/ Vice Principal	Rs.500	Rs.2000
Professor/HOD/Associate Professor	Rs.300	Rs.1500
Assistant Professor	Rs.200	Rs.800

(x) Local Conveyance:

Local Conveyance is applicable to the faculty who wish to attend WS/Conference/ FDP or any other duty assigned by Principal within the limits of the city. Travelling Allowance, DA and accommodation not applicable.

Director/Principal/ Vice Principal	Professor/HOD/Associate Professor	Assistant Professor
Rs.1000 per day	Rs.500 per day	Rs.300 per day

G. Motivational Initiative Polices

It is a natural thing that nobody acts without a purpose behind. Therefore, a hope for a reward is a powerful incentive to motivate employees. Besides monetary incentive, there are some other stimuli which can drive a person to better. This will include job satisfaction, job security, job promotion, and pride for accomplishment. Therefore, incentives really can sometimes work to

accomplish the goals of a concern. Therefore, management is offering the following categories of incentives to motivate employees:

(i) Faculty Awards

The institute shall offer incentives in the form of Cash awards, Mementos, Certificates to staff. The policy of incentives and the eligibility conditions should be made known to all the concerned and all announcements in this regard will be made public. The following incentives shall be operative.

1. Pratibha Award:

"Academic Excellence Awards is a very commendable initiative". It is very positive to have this common organization at VIEW at to award all-round efforts in academic excellence. Staff who makes an outstanding contribution to teaching & learning are awarded with "Pratibha (The Best Teacher) Award". The award winners will be honored with a certificate and a cash award of Rs.5,000/- each.

Parameters considered for assessment:

- ✓ It will be rewarded subject wise i.e. the subject result during the academic year should be more than 5% of the last 3 years average result of the same subject (Or) the subject result must be 100% during the present academic year.
- ✓ Students feedback should be above 90%

2. Sastra Award:

To encourage and appreciate research, Sastra Awards are presented to VIEW faculty who make a mark in research publications and presentations. Faculty research work is honored with cash awards for their outstanding contributions.

3. Vishista Seva Award:

Employee's retention is one of the strengths of VIEW. All teaching and non teaching staff of VIEW who served the organization for about Ten years and more in Vignan Group are recognized for their service and are presented with Vishista Seva Award with a cash award of Rs.5000/-

4. Vijetha Award:

Faculty at VIEW are recognized and honored for their individual academic and related achievements in their respective domains. Vijetha awards are presented to those faculties who

have achieved awarded and recognitions in State/University/ /National/International Level are presented with Vijetha Award.

(ii) Research Incentives

At Vignan's Institute of Engineering for Women, Research is an integral part of the academic activity carried within various undergraduate and postgraduate programs. These different activities and initiatives over the last one decade are consolidated to prepare this Policy of VIEW on Promotion of Research & Innovation, Consultancy & Extension Services.

1. Incentive for book publications

1. Full text book with single author : INR 20000
2. Full text book with two authors : INR 10000 each author
3. Full text book with multiple authors : INR 5000 each author
4. Chapter Contribution : INR 3000

Note: Published book or chapters or monographs must have 'VIEW' as the affiliation.

2. Incentive for Research Publication

If a research paper is published based on his/her work in hard copy or in electronic form in a refereed journal, he / she will pay an incentive as indicated below.

SCI Journal	10000
Un paid Scopus Journal	7,500

The publications will be considered only if they are indexed in Web of Science or in Scopus. If the paper is contributed by more than one author the incentive will be shared among the faculty

(iii) Incentives for Presentation of Research Papers in Conferences/Seminars in India

- ✓ The International/ National conference must be of repute (viz. IEEE, Springer/Wiley etc.) and the hosting Institutions must be of Institutes of repute-IITs/IISc/NITs/IIITs/ Universities/ Deemed Universities etc.
- ✓ The paper/article must be published in any National/International Journal/Conference proceedings.
- ✓ The faculty would be allowed OD + Registration fees on actual basis or Rs. 5,000/- whichever is less.
- ✓ TA/DA will be paid as per the Institute norms.
- ✓ In case of joint authorship only one faculty can avail the facility.

- ✓ Each faculty can present research papers in Conferences of repute twice in an academic year with financial assistance (limited to Rs. 10,000/- only).
- ✓ Maximum number of ODs is limited to one week during lean period. Number of ODs during the academic period is subject to prior approval of Principal.
- ✓ Only Oral presentation of research papers is acceptable.

(iv) Incentives for Presentation of Research Papers in Conferences outside India/Abroad.

- ✓ The faculty has to approach AICTE (which provides 100% funding subject to meeting their norms) for Travel Grant or other Funding Agencies of Govt. of India.
- ✓ It has been observed that some of the proposal may not meet AICTE norms besides paucity of funds with them because of their All India Scope. Therefore, VIEW may also consider funding for International Conferences on case to case basis, subject to 60% to be paid by the candidate and 40 % by VIEW with the candidate having at least 5 years service in VIEW. Also, the candidate should register for Ph.D after coming as soon as possible.
- ✓ The staff who wish to apply for incentives for paper presentation in the International conferences abroad need to get approval from Chairman/CEO at least one Month in advance.

Note:

1. The Incentive under the category of Presentation of Research Papers in Conferences in India/Abroad (6.3 & 6.4) will be paid only after submission of duly filled application and attaching copies of evidence countersigned by the HOD and R&D Coordinator.
2. However the faculty can apply for travel advance to the maximum of 75% of the expected expenditure subject to approval of the Principal.

(v) Incentives for attending Workshops/FDPs

- ✓ The Workshops/Symposium/FDPs hosting Institutions must be Institutes of repute-IITs/IISc/NITs/IITs/IIM/Universities/Deemed Universities etc.
- ✓ The faculty would be allowed OD+ Registration fees on actual basis or Rs. 5,000/- whichever is less, when the Workshops/Symposium/FDPs have minimum of 3 days duration.
- ✓ The faculty would be allowed OD+ Registration fees on actual basis or Rs. 3,000/- whichever is less, when the Workshops/Symposium/FDPs have less than 3 days duration.

- ✓ TA/DA will be paid as per the Institute norms.
- ✓ Each faculty can attend Workshops/ Symposium /FDPs of repute twice in an academic year with financial assistance. However, financial assistance is limited to Rs. 10,000/- only.
- ✓ Maximum number of ODs is limited to one week during lean period. Number of ODs during the academic period is subject to prior approval of Principal.
- ✓ Minimum service clause is not applicable to attend conference/symposium/FDP
- ✓ Faculties going for attending FDPs outside need to disseminate knowledge / information by organizing faculty Development Program (FDP)/ Student Development Program (SDP)/ Student Workshop/ Summer etc for the benefit of Faculty and Students in their respective departments.
- ✓ The OD and Registration claim under Research Incentive Schemes (RIS) of VIEW must be made within a month in the prescribed form.

(vi) Incentive for Generation of Research Grants

- ✓ Faculty members are expected to submit proposals for research grants from funding agencies. It is quite likely, that these projects may involve modernization of laboratories, acquiring of equipment required specific to the research study or conducting of surveys etc.
- ✓ The incentive will be linked to the total amount of research grant sanctioned by the sponsoring agency. The incentive will be 20% of the research grant received from the funding agency.
- ✓ Since the amount being released in phases, the incentive(s) paid is also proportional to the amount received by the Institute.

(vii) Incentive for Consultancy work

To encourage genuine consultancy work from the faculty, VIEW announces a policy whereby the faculty can claim 100% of the amount charged under the consultancy work. This is subject to the following conditions:

- ✓ Faculty should be the sole in-charge of the consultancy work
- ✓ The said consultancy work should be undertaken post the approval of the principal and the agreement should be undertaken between VIEW and the concerned third party

- ✓ The payment for the consultancy work should be credited to VIEW which will further be passed on to the faculty.

(viii) Incentives for Professional Body Membership

- ✓ All faculty members on roll of VIEW having more than Five SCI/ SCOPUS research papers, acquiring membership for National and International professional societies are eligible for reimbursement of 50% of cost of membership registration fee subject to Maximum of Rs.10,000.
- ✓ Maximum of Rupees Ten Thousand (Rs. 10,000) will be paid for International society membership and Rupees Five Thousand (Rs. 5,000) for National society membership and Rupees Two Thousand (Rs. 2,000) for State Level Membership.
- ✓ Incentive claim under Research Incentive Schemes (RIS) of VIEW must be made within a month of registration with the professional bodies.

(ix) Incentives for Research Awards/Any recognition received by the faculty from reputed Professional Bodies and Agencies (For which Vignan has not provided any funding)

Awards Received from Agencies	International Level	National Level	State level	University Level
Incentive (INR)	10000	5000	2000	1000

(x) Incentive for Doctoral Research Guidance

Description	Supervisor	Co-Supervisor
Incentive	10000	5000

H. Staff Exit Policy

The purpose of this policy is to identify academic, organizational or human resource factors that have contributed to an employee's decision to leave the employment. This also helps to enable the management to identify any trends requiring attention or any opportunities for improving the management's ability to respond to employee issues. It enables the Institute to improve and continues to develop recruitment and retention strategies aimed at proper talent nurturing/management.

This policy covers the procedures to be adopted when any employee of the Institute leave employment for whatever reason.

Scope:

This policy applies in the case where in the employees who resign and get relived after serving or getting the notice period served.

Objectives of the Policy:

The purpose of conduction of the exit interview is to:

a) Try and retain the employee by addressing his/her grievance and expectations

b) Try and find out exact reasons for resignation and

c) To suggest to Management remedial measures to reduce further attrition.

Voluntary Participation and Confidentiality

Employees are responsible for participating in the exit interview process on a voluntary basis. If an employee chooses to participate in an exit interview, he/she will be encouraged to be honest, candid, and contractive in their responses. The information received through Exit Interviews will be confidential. No specific information that could possibly be traced back to an ex-employee will be disseminated or discussed.

Exit by Resignation

a) If any staff member wants to resign from the job, the concerned staff member shall give a minimum of one month / 30 days advance notice or as per the conditions specified in the appointment order about his / her intention of leaving job, only at the end of the academic year to the Principal in writing.
b) In case, where the end of notice period falls during the course of a semester, he / she may be relieved only at the end of the semester.
c) The un-availed leave at the credit of the staff member shall not be adjusted towards the notice period.
d) In case if, he / she takes leave for a day, then the leave availed will be treated as on loss of pay with the cut in the salary for the day during the notice period.
e) While getting relieved, files, materials and documents, etc., entrusted to him / her shall be handed over to the person nominated by the HOD under proper acknowledgement.
f) The staff member can apply for his/her the relieving order from the Institution only after the submission of “No Dues Certificate” in the prescribed form along with a copy of handing over charge record in case if he/she happens to be in-charge of the laboratory.

g) Any staff member may be relieved immediately if he / she gets a Government Job or the concerned individual's spouse is transferred or he / she is getting married. But this is subject to the discretion of the management after assessing the merit of the request.

h) The Principal reserves the right to waive – off / reduce the notice period.

i) The Principal will arrange an Exit interview with the staff after the acceptance of his/her resignation with a view to obtain a candid feedback.

Exit by Termination

a. The Institution may terminate the services of an employee under special circumstances, such as reduced workload, performance not satisfactory as seen from the feedback and report of HODs, or if found medically unfit, after giving one month notice or pay in lieu thereof.

b. No such Notice shall be necessary, if the termination is as a result of proven misconduct after an enquiry conducted in accordance with the college Rules**.**

Procedure and Reporting of Policy:

1. A committee comprising of Academic Director, Principal and Dean of Administration should conduct the exit interview after the confirmed leaving date has been received by HR Department of any particular staff member.

2. The employee will be asked a standard set of question and given a chance to discuss additional information they feel would be beneficial for the Institute working.

3. Academic Director, Principal will fill the exit interview form in prescribed format (Annexure-II).

4. The information will be analyzed regularly by Human Resources Department to identify areas or determine trends that may need to be addressed. Periodically, human resources Department will share their analysis and recommendations with designated members of the Staff/Dean-Admin/Principal/Academic Director.

5. The analysis and review will include

- Appropriate statistical information regarding the number and distribution of employee departures during the preceding year and her/his reasons for leaving;
- An analysis and discussion of any trends or common themes which are suggested by the exit interview feedback.

- A summary of any actions or interventions taken during the year on the basis of exit interview information.

Issue of Service Certificate:

Every permanent employee shall be entitled to a Service Certificate at the time of leaving the service of the Institution. Such Certificate shall be valid if it is issued and signed by the Principal.

10.1.3. DECENTRALIZATION IN WORKING AND GRIEVANCE REDRESSAL MECHANISM (10)

(List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievance redressal cell including Anti Ragging Committee & Sexual Harassment Committee)

10.1.3 (A) Decentralization in working:

A core team of about 20 members owns and lead the major processes in the institute to see that all these processes are intact. The responsibilities of the decision makers are discussed in Table 10.9. In decentralization every member has freedom for their responsibilities, which helps in speedy completion of assigned tasks.

Table 10.9 List of faculty members who are administrators/decision

Sl. No	Name	Responsibility
1.	Prof.A.Sesha Rao	Academic Director
2.	Dr.J.Sudhakar	Principal
3.	Dr.P.S.Ravindra	Dean of Administration
4.	Dr.B.Prakash	Head of Department-Information Technology
5.	Dr.K.Vijaya Kumar	Head of Department-Computer Science & Engineering
6.	Dr.K.Durga Syam Prasad	Head of Department-Electrical & Electronics Engineering
7.	Dr.Ch.Ramesh babu	Head of Department-Electronics & Communication Engg.
8.	Dr.V.Anandababu	Head of Department-Mechanical Engineering
9.	Dr.K.Chaitanya	Head-Department of BS&H, & Coordinator-R&D
10.	Dr.M.Pardha Saradhi	Head of Department-Master of Business Administration
11.	Mr.A.Ganapathi Rao	In-charge: Examinations

12.	Dr.Y.Bhaskar SS Gupta	Coordinator-IQAC
13.	Dr.K.V,Ramana Rao	In-charge- Training and Placements
14.	Mr. D.Rajendra Dev	In-charge- System Cell
15.	Dr.S.Ramesh	In-charge- Entrepreneurship Development Cell
16.	Dr.G.V.Rama Krishna Rao	In-charge- Discipline Cell & Physical Education
17.	Dr.D.Nirmala Devi	I/c- Women Grievance & Anti-Sexual Harassment Cell
18.	Mrs.S.Kalyani	In-charge- Grievance and Redressal Cell (GRC)
19.	Mr.K.Suryanarayana Rao	In-charge- Anti Ragging Cell
20.	Mr.M.Vijaya Sekhar	Campus Manager

10.1.3 (B) Mechanism of Grievance Redressal Cell

The Institution has set up the following cells to address any grievance received from students and staff and recommends appropriate action to the authorities.

(i) Grievance and Redressal Cell (GRC)

(ii) Anti Ragging Cell (ARC)

(iii) Women Grievance & Anti-Sexual Harassment Cell

(i) Grievances Redressal Cell (GRC)

As per All India Council for Technical Education Establishment of Mechanism for Grievance Redressal Regulations, 2012, F. No. 37-3/Legal/2012, dated 25.05.2012. Vignan's Institute of Engineering for Women is committed to providing a harmonious & fair learning environment. Students and Staff have access to processes that allow for appeals, complaints and grievances that are to be resolved. Student and staff grievance resolution process seeks to facilitate their formal resolution of grievances as close as possible to the source of the aggrieved person's dissatisfaction, though there will be instances when either students may choose to lodge a formal appeal or a grievance needs to go to a higher authority for resolution.

The institute has the following mechanism to analyze the grievances.

1.Suggestion boxes are placed on all corridors in the Institute to lodge the feedback/complaint/suggestion of all stakeholders.

2. The committee should meet once in a month to investigate the complaints raised by students and staff, if any.

3. The duty of Grievance Redressal Cell is to provide a fair representation for all the concerned parties.

3. During the course of the investigation, the investigator will maintain careful notes of interviews with the aggrieved member and relevant witnesses.

4. In addition to the written statements and testimony of the student and the faculty member, the committee may collect and consider any information it deems relevant and hear from anyone it deems to have relevant information. Both the student and faculty member may suggest the names of persons with relevant information, but the committee makes the final decision about whom to interview.

5. The proceedings and the committee's deliberations will be confidential and not to be open to the public.

6. After investigation upon grievances received, the committee members prepare a report and forwarded to Principal for further action.

7. Thereafter, the principal on reviewing and understanding the level of the problem forwards the same to the management committee for necessary action.

Table 10.10 Composition of Grievances Redressal Cell

Sl.No	Name of the Staff	Designation	Role
1.	Dr.J.Sudhakar	Principal	Chairman
2.	Prof.A.Sesha Rao	Academic Director	Member
3.	Dr.K.Vijaya Kumar	HoD-CSE	Member
4.	Dr.Ch.Ramesh Babu	HoD-ECE	Member
5.	Dr.K.Durga Syam Prasad	HoD-EEE	Member
6.	Dr.B.Prakash	HoD-IT	Member
7.	Dr.V.Anandababu	HoD-MECH	Member
8.	Dr.M.Pardha Saradhi	HoD-MBA	Member
9.	Dr.K.Chaitanya	HoD-BS&H	Member
10.	Dr.T.Radhakrishna Murty	Professor-BS&H	Member
11.	Dr.K.Jaya Sri	Professor-CSE	Member
12.	Mrs.T.Sandhya Kumari	Assoc. Professor-ECE	Member
13.	Dr.D.Nirmala Devi	Assoc. Professor-BS&H	Member
14.	Mrs. K. Therissa	Assoc. Professor-EEE	Member
15.	Mrs.S.Kalyani	Assoc. Professor-IT	I/c. Grievance

Table 10.10 (A) Some of the actions taken by Grievance cell

Complaints	Actions
Students and faculty have complained that most of the buses are overcrowded	Seat allocation was introduced and additional buses were procured
Students and staff have complained against the old infrastructure in the washrooms	All the washrooms have been renovated with new flooring and plumbing.
Students and faculty requested for freezing water machines to have cool water in the campus	Four Freezing water machines have purchased and one in each floor
Students have complained against the medical kit in departments	Arranged separate medical kits in each department for students and staff.
Students have complained against the Shortage of beds in the rest rooms	Additional beds arranged in all rest rooms in the campus
Students have complained to Extend the CCTV Cameras in corridors in all floors	CCTV Cameras installed in all the four floors
Placing Trash Bins in Class room and wash rooms and surroundings of the campus	Trash bins are placed in all class rooms, wash rooms and other appropriate places in campus

(ii) Anti-ragging Cell:

As per All India Council for Technical Education notified Regulation for prevention and prohibition of ragging in AICTE approved Technical Institutions vide No. 37-3/ Legal/ AICTE/ 2009 dated 01.07.2009 Anti Ragging Cell established in the Institution to monitor, direct and oversee the functions and performance of the Anti-Ragging Squads in prevention and curbing of ragging in the institution.

Ragging Prevention at VIEW

- Anti-ragging squad is constituted as per AICTE guidelines.
- Names, telephone nos. of authorities have been put on web site. In case of any emergency student can contact the authority.
- Staff members do the necessary counselling from Time-to-time Sensitize.
- Surprise / Routine visits to hostel, College canteen, common room & other sensitive area by the committee members.

The committee comprises of following members.

Table 10.11 Composition of Anti-ragging Cell

Sl. No	Name	Designation	Position	Phone No.
1.	Dr.J.Sudhakar	Principal	Chairman	9133300346
2.	Mr.M.Joga Rao	Police Representative	S.I. Duvvada Police Station	9440796053
3.	Mr.M.S.V.Prasad	Representatives of Local Media	Field Officer	9959087088
4.	Dr.K.Durga Shyam Prasad	HoD-EEE	Faculty Representative	9550014738
5.	Mrs.Ch.R.S.Valli	Hostel Warden	Mgt. Represen.	9550299709
6.	Mr.M.Vijaya Sekhar	Campus Manager	Non-Teaching Staff	9133300354
7.	Sri.K.Bhaskara Rao	Parent Representative	Member	8977489200
8.	Sri.E.Eswara Rao,	Parent Representative	Member	8341169171
9.	Mr.K.Suryanarayana Rao	Asst.Prof, BS&H	Coordinator	9642352326
10.	Ms.K.Sri Rekha	IV Year Class Representative	Student Member-CSE	9391197198
11.	Ms.K.Vinusha	IV Year Class Representative	Student Member-ECE	9392449988
12.	Ms.K.Padmavathi	IV Year Class Representative	Student Member-EEE	9515266516
13.	Ms.Bhagya Sri	IV Year Class Representative	Student Member-IT	9493399749
14.	Ms.K.Surya Prabha	IV Year Class Representative	Student Member-ME	9398429433
15.	Ms.Palli Bhargavi	III Year Class Representative	Student Member-MBA	9392462313

Table 10.12 Institute level Anti-Ragging Squads

Sl.No	Name	Designation	Position	Phone No.
1.	Mrs. Ch. Padma Vani	Assoc.Prof, ECE	Chair Person	9866194699
2.	Mrs.M.Mamatha Laxmi	Asst.Prof, CSE	Member	9246621037
3.	Mrs.K.Therissa	Assoc.Prof, EEE	Member	9949531531
4.	Mr.Ch.Suresh	Asst.Prof, ME	Member	9866317946
5.	Dr.D.Nirmala Devi	Asso.Prof, BS&H	Member	9063001918
6.	Dr. G.V.Ramakrishna Rao	Assoc.Prof, MBA	Member	9642144268

Duties & Responsibilities

1. Should meets often to discuss the steps to be taken to prevent ragging in the campus.
2. Mandatorily, anti-ragging undertaking is taken from students and their parents at the time of admission.
3. Awareness programs are conducted to the students in association with AP legal Services Authority, Local Police, Progressive Psychologists Association and various NGOs about ragging act, punishments and consequences.
4. Posters depicting the anti-ragging act and its punishments are displayed on all notice boards, corridors and at the canteen.
5. Contact numbers of the anti-ragging committee members are displayed at various sensitive places across the campus.

(iii) Women Grievance & Anti-Sexual Harassment Committee/Cell (WG & ASHC):

A Women Grievance & Anti-sexual Harassment committee is established in the college to ensure safe and healthy working environment for the female students and staff. The cell plays dual role. The Cell is required to work in the direction of providing help to any female complaining of discrimination, either gender discrimination or otherwise, any kind of abuse, loneliness, peer pressure, groupism, home sickness, insecurity and/or inferiority complex in terms of physical appearance, hostel issues, harassment from room-mates, adjusting and adopting to the new environment etc.

The Cell also deals with issues relating to sexual harassment at the college as per the guidelines of Sexual Harassment of Women at Workplace (Prevention, Prohibition & Redressal) Act, 2013. It is applicable to all students, staff and faculty. The following is also sexual harassment and is covered by the committee:

- Eve-teasing, Unsavory remarks,
- Jokes causing or likely to cause awkwardness or embarrassment,
- Innuendos and taunts, Gender based insults or sexist remarks,
- Unwelcome sexual overtone in any manner such as over telephone (obnoxious telephone calls) and the like,
- Touching or brushing against any part of the body and the like,
- Displaying pornographic or other offensive or derogatory pictures, cartoons, pamphlets or sayings,

- Forcible physical touch or molestation and Physical confinement against one's will and any other act likely to violate one's privacy.

Table 10.13 Composition of Women Grievance and Anti-Sexual Harassment Committee

Sl. No	Name	Designation	Position	Phone No.
1.	Dr.D.Nirmala Devi	Assoc.Prof-BS&H	President	8985367040
2.	Dr.Akanksha Mishra	Assoc.Prof-EEE	Vice-President	9704559874
3.	Mrs.S.Roopa	Asst.Prof-MECH	Secretary	8143533366
4.	Mrs.P.Rajya Lakshmi	Advocate	Adviser	9290442757
5.	Dr.P.Vijaya Bharathi	Assoc.Prof-CSE	Dept.Coordinator	9849819662
6.	Mrs.T.Sandhya Kumari	Assoc.Prof-ECE	Dept.Coordinator	9949873848
7.	Mrs.S.Kezia	Asst.Prof-EEE	Dept.Coordinator	7013111039
8.	Mrs.S.Kalyani	Assoc. Prof-IT	Dept.Coordinator	9491162578
9.	Mrs.G.Anusha	Asst.Prof- MECH	Dept.Coordinator	9491360793
10.	Mrs.M.Satyavathi	Asst.Prof-MBA	Dept.Coordinator	9032991981
11.	Dr.K.P.Suhasini	Assoc.Prof-BS&H	Dept.Coordinator	9885218954

Mechanism for complaints on Sexual Harassment:

A written compliant is required to be taken from the aggrieved person, necessary action to be taken, preferably to settle the matter through counselling and conciliation as soon as possible. In case the matter is not so sorted, inquiry to be conducted and matter to be sorted out within 10 days from the date of compliant. The members to be vigilant all the time and ensure that there is no such incident taking place in campus by creating awareness and having an open dialogue with all the students. Following are the Guidelines to be strictly followed

- The complainant will have to submit a written and signed complaint addressed to the Presiding officer of the Cell
- The students/staff can give a complainant through e-mail to womengrievance.view@gmail.com
- The counselor will call the complainant for a personal meeting, usually within a week from the submission of the written complaint
- The members of the Cell will discuss the complaint

- If the case falls outside the purview of the Cell, the complainant will be informed to Director
- If the case comes under the purview of the Cell, an enquiry committee will be set up
- The Committee will submit a report and recommend the nature of action to be taken at the earliest by Director
- If any legal action is required with the help of advocate member of the cell complaint is forwarded to police.

10.1.4 DELEGATION OF FINANCIAL POWERS (10)

(Institution should explicitly mention financial powers delegated to the Principal, Heads of Departments and relevant in-charges. Demonstrate the utilization of financial powers for each year of the assessment years)

Institution should explicitly mention financial powers delegated to the Principal, Dean-Admin and Heads of Departments. Demonstrate the utilization of financial powers for each year of the assessment years

Finance Committee:

Finance Committee of the institution shall be the key body which will monitor and manage the financial sustainability of the institution. Finance committee is an advisory body to the Governing Body and reports/recommends from time to time regarding the matters related to budget estimates, income from fees etc. The term of the members of the finance committee will be for the two years and shall be re-constitute by the Principal.

Table 10.14 Composition of Finance Committee

Sl. No	Name of Committee Member	Designation	Position
1.	Dr.J.Sudhakar	Principal	Chairman
2.	Prof.A.Sesha Rao	Academic Director	Member
3.	Mr.N.Srikanth	Executive Director	Member
4.	Dr.P.S.Ravindra	Dean-Admin	Member
5.	Mr.Suresh	Head of Accounts-VIEW	Member
6.	Mr.I.Rama Rao	External Auditor	Member
7.	Mr.Suresh	Statutory Auditor, LES	Member

The functions of the finance Committee are as follows:

1. To monitor and manage the budget estimation relating to the Income from fees collected etc.,

2. To manage the annual budgets and utilization reports submitted by the individual departments

3. Audited account for the above and Department level Financial Delegation

Financial powers delegated to the Principal, Dean-Admin, Heads of Departments and relevant in-charges

1. The Principal of the institution have complete financial powers pertaining to the college.

2. The Principal acts as the joint signatory of all the college financial accounts.

3. The Principal is empowered to sanction the requisite amount of money after getting approval from the Finance committee.

4. Dean of Administration can spend up to Rs. 10,000. In addition to it all pre approved recurring expenses can be cleared by DoA.

5. The HODs are delegated to use Rs 5,000 contingency in emergency purchases and repairs for the smooth running of the department.

6. Annual Budget for the institution is prepared by the Finance committee at the beginning of the year, by considering the possible income and expenditure involved. It is approved in the GB meeting.

7. The HOD is the in-charge for the equipments and stores attached to the department concerned. HOD prepares the lists of items of stores to be replenished at periodical intervals and arrange for the purchase of stores.

8. As stated in table 10.9 above, Institution purchase committee carefully scrutinizes and allocates required funds to each department after acquiring proposals from all the departments regarding their requirements for the academic year.

9. The Purchase Committee will go through the quotes and recommendations of the user and advise the concerned HOD. The concerned HOD will forward the recommendations of the Purchase Committee along with remarks to the Principal.

10. The Dean-Admin will scrutinize the comparative statement and give his remarks and send the file back to the concerned department. The HOD shall take copies of the comparative statement and the quotations and send the originals to Purchase Department for further action.

11. The Dean-Admin will place order after taking approval of Principal & Executive Director.

12. Vouchers support all transactions. All bills/invoices/vouchers are scrutinized by account staff and approved by the Dean-Admin and Principal.

13. The bill payments are passed after ensuring proper verification/evaluation of the items. Only duly authorized persons to operate the transactions through the bank.

14. Audited financial statements including Income and Expenditure Account, Balance Sheet etc. are prepared by qualified auditors and submitted to banks and other regulatory agencies.

Utilization of financial powers for each of the assessment years:

The following table demonstrates the Financial Utilizations by Principal, Dean Admin, and HODs for the last 3 assessment year i.e.2018-19, 2019-20 and 2020-21.

Table 10.15 Financial Utilizations by Principal, Dean Admin, and HOD

	HOD	Dean-Admin	Principal
CAY (2020-21)	Utilization: 1.Printers Cartridge Refilling cost 2. Hospitality expenses like tea coffee, Lunch, Snacks for external laboratory examiners and for panel members in Project Viva Voice. 3. Postage and Cell charges for parents and for official Correspondence. 4.Maintenance and Miscellaneous expenses.	Utilization: 1. Institution buildings. 2. Approval for rent, rates and taxes 3. Insurance and others, if any 4. Postage, Telephone charges 5. Electricity charges 6. Printing and Stationary 7. College maintenance 8. Games & expenses 9. Travelling & conveyance 10. Transportation Charges	Utilization: 1. Advertisement & Publicity expenditure 2. Purchase of books and periodicals for library 3. Approval of cost of functions & celebrations 4. Payment of affiliation fees etc. 5. Purchase of A.C. machinery. 6. Purchase of building construction material 7. Purchase of 300 computers and peripherals 8. Purchase of machinery 9. Purchase of vehicles 10. Approvals for research projects related expenditure 11. Purchase of online journals for the digital library 12. Approval for regular salaries.
CAY *m*1 **(2019-20)**	Utilization: 1.Printers Cartridge Refilling cost 2. Hospitality expenses like tea/coffee, Lunch, Snacks for External Laboratory Examiners and for Panel Members in Project Viva Voice. 3. Postage and Call charges for Parents and for official correspondence. 4. Maintenance and Miscellaneous expenses.	Utilization: 1. Institution buildings. 2. Approval for rent, rates and taxes 3. Insurance and others, if any 4. Postage, Telephone charges 5. Electricity charges 6. Printing and Stationary 7. Garden maintenance 8. Repair & maintenance 9. College maintenance 10. Games & expenses	Utilization: 1. Advertisement & Publicity expenditure 2. Purchase of books and periodicals for library 3. Approval of cost of functions & celebrations 4. Payment of affiliation fees etc. 5. Purchase of A.C. machinery. 6. Purchase of building construction material 7. Purchase of 250 computers and

			peripherals 8. Purchase of electrical equipment 9. Purchase of furniture & fixtures for the class rooms and labs 10. Purchase of lab equipment 11. Purchase of office equipment 12. Purchase of machinery
CAY *m*2 **(2018-19)**	Utilization: 1.Printers Cartridge Refilling cost 2. Hospitality expenses like tea/coffee, Lunch, Snacks for External Laboratory Examiners and for Panel Members in Project Viva Voice. 3. Postage and Call charges for Parents and for official correspondence. 4. Maintenance and Miscellaneous expenses.	Utilization: 1.Institution buildings. 2. Approval for rent, rates and taxes 3.Insurance and others, if any 4. Postage, Telephone charges 5. Electricity charges 6. Printing and Stationary 7. Garden maintenance 8. Repair & maintenance 9. College maintenance	Utilization: 1. Advertisement & Publicity expenditure 2. Purchase of books and periodicals for library 3. Approval of cost of functions & celebrations 4. Payment of affiliation fees etc. 5. Purchase of A.C. machinery. 6. Purchase of building construction material 7.Purchase of computers and peripherals 8. Purchase of electrical equipment

10.1.5. TRANSPARENCY AND AVAILABILITY OF CORRECT/UNAMBIGUOUS INFORMATION IN PUBLIC DOMAIN (5)

(Information on policies, rules, processes and dissemination of this information to stakeholders is to be made available on the web site)

Effective governance, leadership and management are evident from its long history of disturbance-free performance in imparting quality technical education. It is mainly because of the highly responsive compact management which gets constant inputs and feedback from the administrative and academic heads, experts, alumni, faculty, students, and supporting staff.

Information on the policies, rules, processes:

1.The Institution has its own HR policies, Service Rules and Processes that are disseminated to the stake holders through the institutional website http://view.edu.in/admsrpp.php

2. The Vision, Mission and objectives of the institution are displayed in the College campus at Notice boards, Department Notice boards, Canteen, Hostel building, library and other prime locations to engross the attention of all students, faculty, staff and visitors. The same is also communicated through college website and Newsletter to all the stakeholders for wide publicity.

3. The web-site (www.view.edu.in) of the institution publishes the information pertaining to the institute and programs for circulation to stakeholders and the general public.

4. Annual audited reports are published and available to the stakeholders and public in the college website.

5. The student admissions are transparently filled through a separate single window system of the Government of Andhra Pradesh. Admission to UG is done through APEAMCET and admission to PG programs is done through APPGCET & APICET.

Dissemination of the information about student, faculty and staff

1. Information such as Internal marks scored by students, Shortage of attendance, if any, examination schedule, availability of scholarships, opportunities for students etc are promptly displayed on Notice Boards.

2. Criteria for student scholarships, faculty awards etc are informed well in advance so that equal opportunity is given to all individuals concerned.

3. At the beginning of every academic year the college brings out a broucher, which contain all the information like departments profile, faculty details, students result, achievements, placement records and other information required by a student to carry out her studies in the college.

4. Notices or Circulars concerned to students are circulated in the class rooms and displayed on the notice boards.

5. Circulars or notifications from the university regarding academic matters are sent to all the Heads of the departments and circulated among the faculty members and students.

6. The institution is transparent in providing timely information to its staff enabling better connectivity and proficiency in day-to-day academic and administrative works.

7. An SMS alert is sent to parents/guardians if their ward fails to attend the classes.

8. Regularly we intimate to parents/ guardian regarding the attendance and academic progress of their wards through registered post with acknowledgement.

10.2. Budget Allocation, Utilization, and Public Accounting at Institute level (30)

(Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years)

Total Income at Institute level: for CFY, CFY*m*1, CFY*m*2, CFY*m*3 and CFY*m*4

CFY: Current Financial Year,

CFY*m*1: (Current Financial Year minus 1),

CFY*m*2: (Current Financial Year minus 2)

CFY*m*3: (Current Financial Year minus 3) and

CFY*m*4: (Current Financial Year minus 4)

Table 1: CFY 2020-2021

Total Income:			**96,255,983**	**Actual Expenditure (till…)**		**132,083,866**	**Total No. of students:** 2489
Fee	**Govt.**	**Grant(s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non recurring**	**Special Projects/ Any other, specify**	**Expenditure per student:**
94,930,194	0	0	1,325,789	109,359,418	22,724,448	0	53,067

Table 2: CFYm1 2019-2020

Total Income:			**100,408,508**	**Actual Expenditure (till…)**		**152,832,520**	**Total No. of students:** 2368
Fee	**Govt.**	**Grant(s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non recurring**	**Special Projects/ Any other, specify**	**Expenditure per student:**
99,535,825	0	300000	572,683	118,669,789	34,162,731	0	64541

Table 3: CFYm2 2018-2019

Total Income:			**100,050,510**	**Actual Expenditure (till…)**		144,356,363	**Total No. of students:** 2455
Fee	**Govt.**	**Grant(s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non recurring**	**Special Projects/ Any other, specify**	**Expenditure per student:**
99,285,460	0	400,000	365,050	136,042,717	8,313,646	0	58801

Table 4: CFYm3 2017-2018

Total Income:			**93,429,180**	**Actual Expenditure (till…)**		127,738,841	**Total No. of students:** 2357
Fee	**Govt.**	**Grant(s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non recurring**	**Special Projects/ Any other, specify**	**Expenditure per student:**
91,145,210	0	1,674,360	609,610	119,292,728	8,446,113	0	54196

Table 5: CFYm4 2016-2017

Total Income:			86,558,949	**Actual Expenditure (till…)**		110,617,386	**Total No. of students:** 2171
Fee	**Govt.**	**Grant(s)**	**Other Sources (specify)**	**Recurring including Salaries**	**Non recurring**	**Special Projects/ Any other, specify**	**Expenditure per student:**

84,161,866	0	0	2,397,083	101,697,530	8,919,856	0	50,952

Table 6: Summery of budget allocation and expenses

Item	Budgeted in 2020-21	Actual Expenses in 2020-21	Budgeted in 2019-20	Actual Expenses in 2019-20	Budgeted in 2018-19	Actual Expenses in 2018-19	Budgeted in 2017-18	Actual Expenses in 2017-18	Budgeted in 2016-17	Actual Expenses in 2016-17
Infrastructure Built-Up	7,800,000	7,680,707	22,000,000	21,295,971	350,000	317,381	6,400,000	6,346,824	6,840,000	6,652,922
Library	340,000	320,445	200,000	192,579	420,000	395,030	725,000	714,159	825,000	776,399
Laboratory Equipment	1,935,000	1,907,620	800,000	790,609	3,000,000	2,804,536	275,000	273,600	370,000	360,257
Laboratory Consumable	45,000	42,418	100,000	90,946	124,000	113,839	75,000	73,406	110,000	105,948
Teaching and Non-Teaching Staff Salary	70,000,000	72,613,729	75,000,000	79,371,961	95,000,000	96,697,635	80,000,000	83,562,881	66,000,000	68,291,820
Maintenance and Spares	940,000	899,601	3,500,000	3,490,124	3,650,000	3,380,388	2,500,000	2,440,988	1,650,000	1,583,479
R&D	1,120,000	1,100,975	2,500,000	2,475,462	420,000	387,245	850,000	814,954	900,000	865,509
Training and Travel	70,000	65,847	200,000	207,986	180,000	163,357	300,000	285,027	500,000	467,375
Miscellaneous Expense	13,000,000	11,853,506	9,775,000	9,736,088	5,000,000	4,661,868	600,000	575,274	425,000	416,038
Admin & Finance Costs	37,000,000	35,599,017	38,500,000	35,180,794	39,200,000	35,435,084	32,500,000	32,651,728	32,000,000	31,097,641
Total	**132,250,000**	**132,083,866**	**152,575,000**	**152,832,520**	**147,344,000**	**144,356,363**	**124,225,000**	**127,738,841**	**109,620,000**	**110,617,386**

10.2.1. Adequacy of budget allocation (10)

(The institution needs to justify that the budget allocated during assessment years was adequate)

The yearly budget is prepared according to the needs & requirements of the departments taking into consideration of annual intake of students, laboratory & infrastructure developments. Components include Students, faculty & staff requirements and promotions and latest technologies etc. Formal budget estimates will be prepared by each department and will be reviewed in HODs meeting with the Principal. After deliberations, formal budget made altered in departments and forwarded to Principal for preparing the final budget at the college level. The final budget is sent to Management for approval and sanction. The Management is approving almost 100% which was proposed by the institute. The budget allocation and utilization for the last three years is adequate.

Table 1: CFY 2020-2021

Item	Budgeted	Percentage of Allocation
Infrastructure Built-up	7,800,000	5.90
Library	340,000	0.26
Laboratory Equipment	1,935,000	1.46
Research & Development	1,120,000	0.85
Total Non -Recurring	**11,195,000**	**8.47**
Teaching & Non-Teaching Salaries	**70,000,000**	**52.93**
Maintenance and Spares	940,000	0.71
Laboratory Consumables	45,000	0.03
Training & Travel	70,000	0.05
Miscellaneous Exp.	13,000,000	9.83
Administration and Finance Cost	37,000,000	27.98
Total Other Recurring Expenditure	**51,055,000**	**38.60**
TOTAL	**132,250,000**	**100.00**

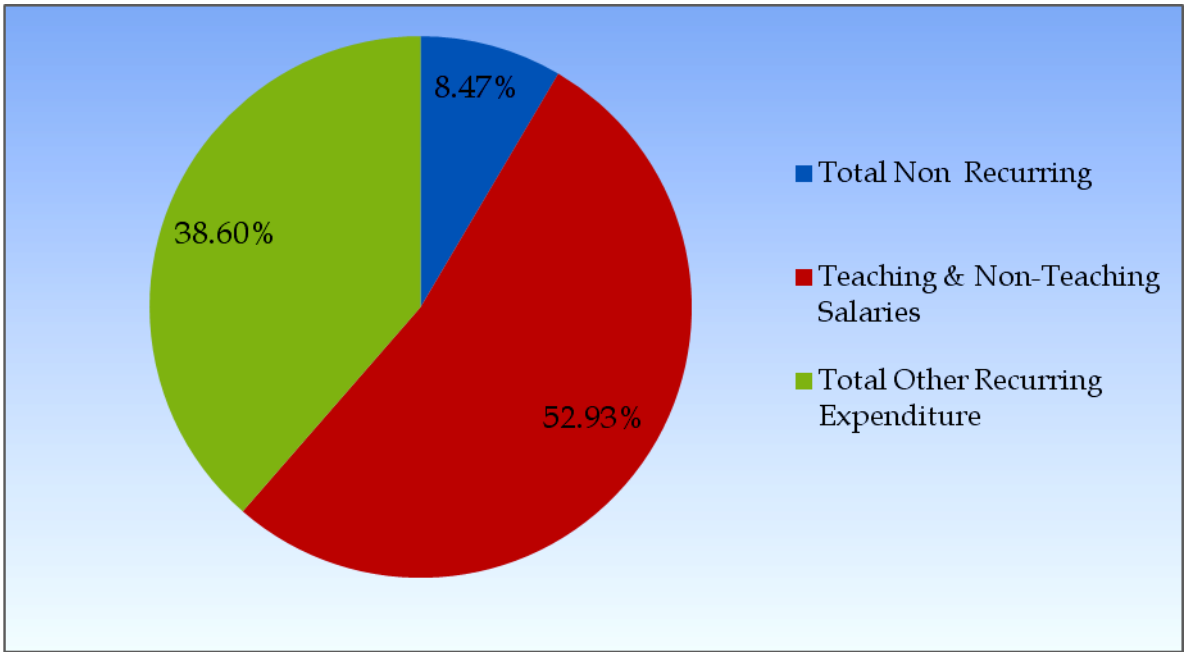


Table 2: CFYm1 2019-2020

Item	Budgeted	Percentage of Allocation
Infrastructure Built-up	22,000,000	14.42
Library	200,000	0.13
Laboratory Equipment	800,000	0.52
Research & Development	2,500,000	1.64
Total Non Recurring	**25,500,000**	**16.71**
Teaching & Non-Teaching Salaries	**75,000,000**	**49.16**
Maintenance and Spares	3,500,000	2.29
Laboratory Consumables	100,000	0.07
Training & Travel	200,000	0.13
Miscellaneous Exp.	9,775,000	6.41
Administration and Finance Cost	38,500,000	25.23
Total Other Recurring Expenditure	**52,075,000**	**34.13**
TOTAL	**152,575,000**	**100.00**

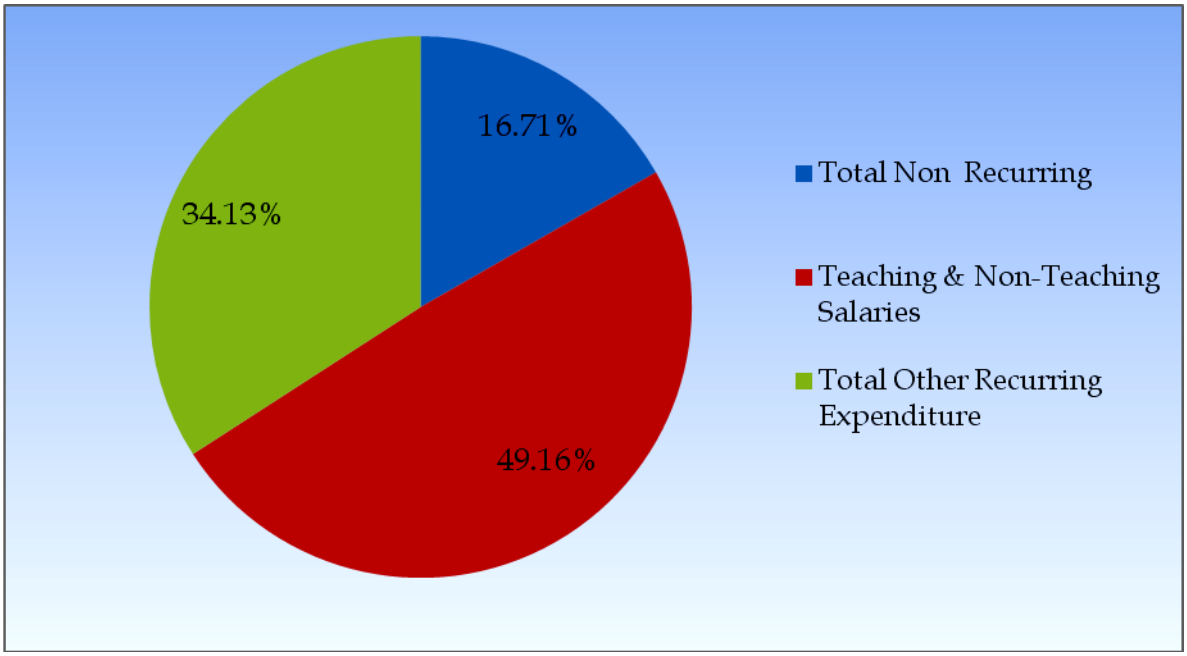


Table 3: CFYm2 2018-2019

Item	Budgeted	Percentage of Allocation
Infrastructure Built-up	350,000	0.24
Library	420,000	0.29
Laboratory Equipment	3,000,000	2.04
Research & Development	420,000	0.29
Total Non Recurring	**4,190,000**	**2.84**
Teaching & Non-Teaching Salaries	**95,000,000**	**64.47**
Maintenance and Spares	3,650,000	2.48
Laboratory Consumables	124,000	0.08
Training & Travel	180,000	0.12
Miscellaneous Exp.	5,000,000	3.39
Administration and Finance Cost	39,200,000	26.60
Total Other Recurring Expenditure	**48,154,000**	**32.69**
TOTAL	**147,344,000**	**100.00**

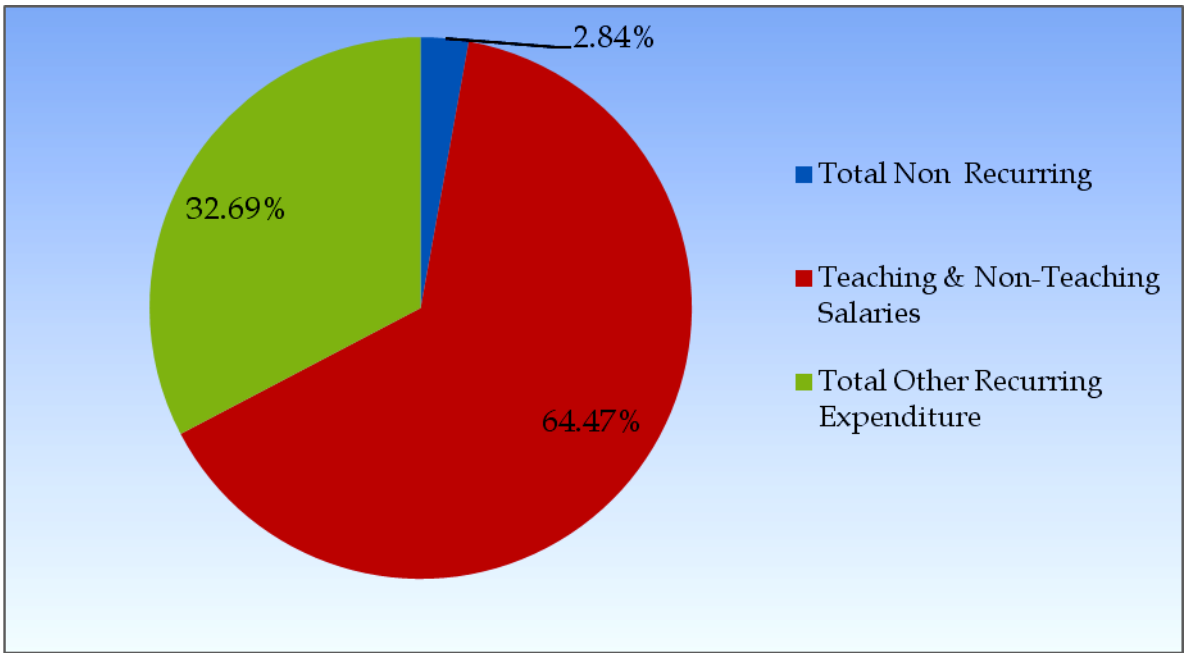


Table 4: CFYm3 2017-2018

Item	Budgeted	Percentage of Allocation
Infrastructure Built-up	6400000	5.15
Library	725000	0.58
Laboratory Equipment	275000	0.22
Research & Development	850000	0.68
Total Non Recurring	**8,250,000**	**6.64**
Teaching & Non-Teaching Salaries	**80,000,000**	**64.40**
Maintenance and Spares	2500000	2.01
Laboratory Consumables	75000	0.06
Training & Travel	300000	0.24
Miscellaneous Exp.	600000	0.48
Administration and Finance Cost	32500000	26.16
Total Other Recurring Expenditure	**35,975,000**	**28.96**
TOTAL	**124225000**	**100.00**

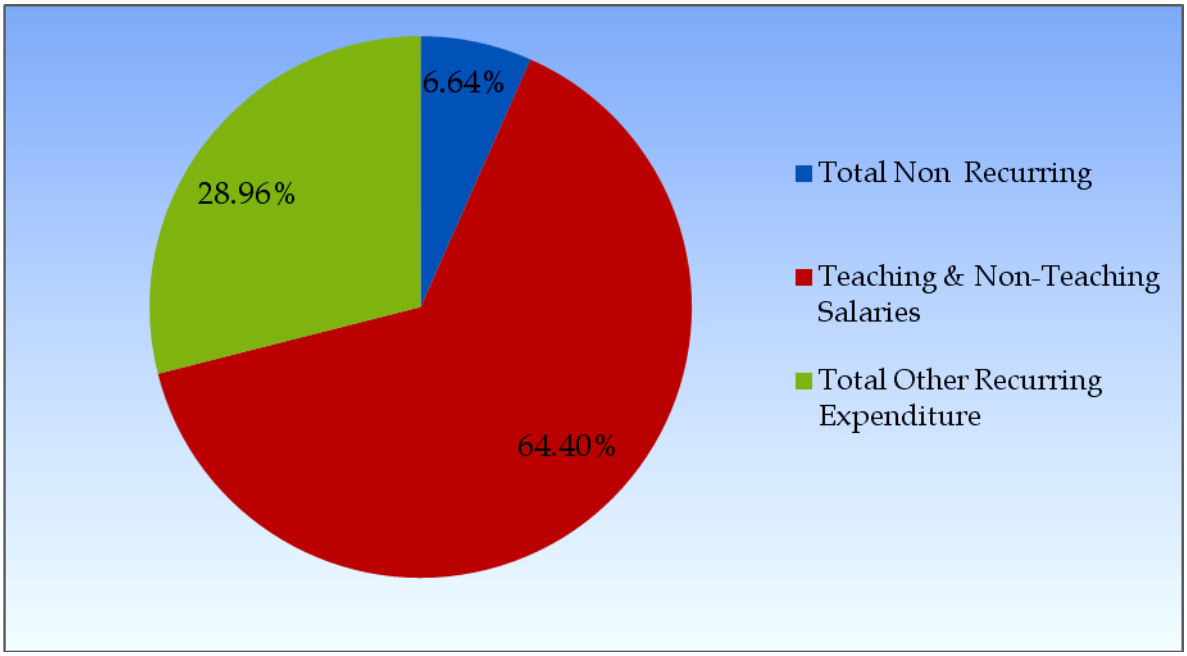


Table 5: CFYm4 2016-2017

Item	Budgeted	Percentage of Allocation
Infrastructure Built-up	6840000	6.24
Library	825000	0.75
Laboratory Equipment	370000	0.34
Research & Development	900000	0.82
Total Non Recurring	**8,935,000**	**8.15**
Teaching & Non-Teaching Salaries	**66,000,000**	**60.21**
Maintenance and Spares	1650000	1.51
Laboratory Consumables	110000	0.10
Training & Travel	500000	0.46
Miscellaneous Exp.	425000	0.39
Administration and Finance Cost	32000000	29.19
Total Other Recurring Expenditure	**34,685,000**	**31.64**
TOTAL	**109620000**	**100.00**

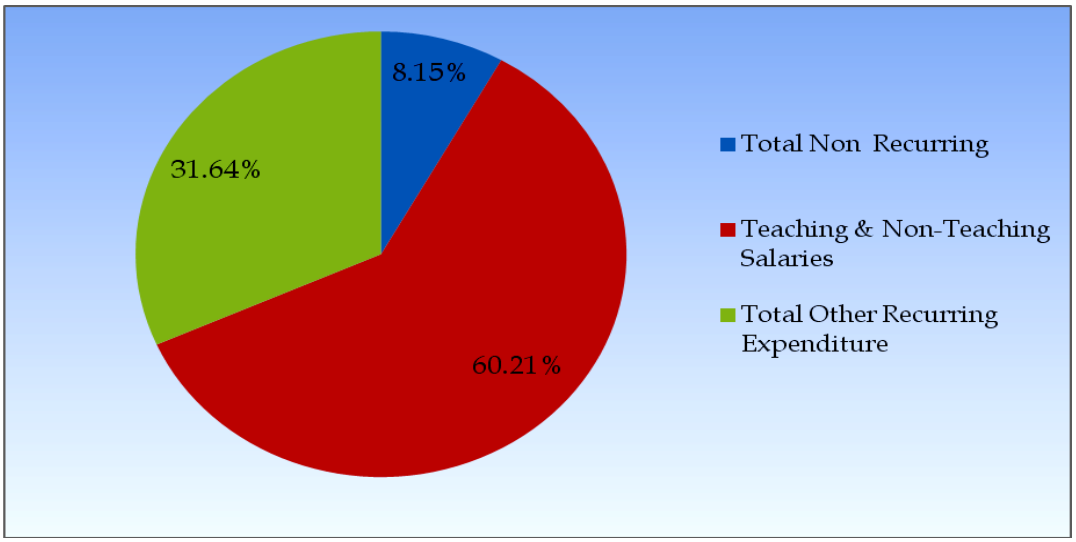


Table 6: Summary of Budget Allocation

Head of Expenditure	2020-21	2019-20	2018-19	2017-18	2016-17
Non-recurring Expenditure	8.47%	16.71%	2.84%	6.64%	8.15%
Teaching and Non-Teaching Salaries	52.93%	49.16%	64.47%	64.4%	60.21%
Other recurring Expenditure	38.6%	34.13%	32.68%	28.96%	31.64%
Total Expenditure	**100%**	**100%**	**100%**	**100%**	**100%**
Total Expenditure per student	**53,067**	**64,541**	**58,801**	**54,196**	**50,952**

Analysis on Adequacy:

- The total budget allocation and utilization have followed established norms in terms of contribution to salaries, administrative expenditure and Non Recurring expenditure to the total expenditure.
- Total budget of the institution has increased by 20.64% in the past 5 years which is in lines with the increase in student strength.
- Total salary expenditure is at a healthy range of 47.09% to 64.47% of the total recurring expenditure in the assessment years
- Total administrative and finance cost is within a range of 28.96% to 38.6% which is as per the accepted standards and it also indicates that the institute has been growing.
- Total nonrecurring expenditure is marked as 16.71% of the total expenditure of the institution in the year 2019-20 showcasing the commitment towards growth and preparations for the future.
- The average expenditure per student has been growing consistently at an average of 8.21% from 2016-17 to 2019-20 which indicating a healthy growth and development in all parameters.
- The change in average expenditure per student by 21.62% from 2019-20 to 2020-21 is arose due to the impact of Covid-19.

10.2.2. Utilization of allocated funds (15)

(The institution needs to state how the budget was utilized during assessment years)

Table 1: CFY 2020-2021

Item	Budgeted	Utilization	% of Utilization
Infrastructure Built-up	7,800,000	7,680,707	98.47
Library	340,000	320,445	94.25
Laboratory Equipment	1,935,000	1,907,620	98.59
Research & Development	1,120,000	1,100,975	98.30
Total Non Recurring	**11,195,000**	**11,009,747**	**98.35**
Teaching & Non-Teaching Salaries	**70,000,000**	**72,613,729**	**103.73**
Maintenance and Spares	940,000	899,601	95.70
Laboratory Consumables	45,000	42,418	94.26
Training & Travel	70,000	65,847	94.07
Miscellaneous Exp.	13,000,000	11,853,506	91.18
Administration and Finance Cost	37,000,000	35,599,017	96.21
Total Other Recurring Expenditure	**51,055,000**	**48,460,390**	**94.92**
TOTAL	**132,250,000**	**132,083,866**	**99.87**

Table 2: CFYm1 2019-2020

Item	Budgeted	Utilization	% of Utilization
Infrastructure Built-up	22,000,000	21,295,971	96.80
Library	200,000	192,579	96.29
Laboratory Equipment	800,000	790,609	98.83
Research & Development	2,500,000	2,475,462	99.02
Total Non Recurring	**25,500,000**	**24,754,621**	**97.08**
Teaching & Non-Teaching Salaries	**75,000,000**	**79,371,961**	**105.83**
Maintenance and Spares	3,500,000	3,490,124	99.72
Laboratory Consumables	100,000	90,946	90.95
Training & Travel	200,000	207,986	103.99
Miscellaneous Exp.	9,775,000	9,736,088	99.60
Administration and Finance Cost	38,500,000	35,180,794	91.38
Total Other Recurring Expenditure	**52,075,000**	**48,705,938**	**93.53**
TOTAL	**152,575,000**	**152,832,520**	**100.17**

Table 3: CFYm2 2018-2019

Item	Budgeted	Utilization	% of Utilization
Infrastructure Built-up	350,000	317,381	90.68
Library	420,000	395,030	94.05
Laboratory Equipment	3,000,000	2,804,536	93.48
Research & Development	420,000	387,245	92.20
Total Non Recurring	**4,190,000**	**3,904,192**	**93.18**
Teaching & Non-Teaching Salaries	**95,000,000**	**96,697,635**	**101.79**
Maintenance and Spares	3,650,000	3,380,388	92.61
Laboratory Consumables	124,000	113,839	91.81
Training & Travel	180,000	163,357	90.75
Miscellaneous Exp.	5,000,000	4,661,868	93.24
Administration and Finance Cost	39,200,000	35,435,084	90.40
Total Other Recurring Expenditure	**48,154,000**	**43,754,536**	**90.86**
TOTAL	**147,344,000**	**144,356,363**	**97.97**

Table 4: CFYm3 2017-2018

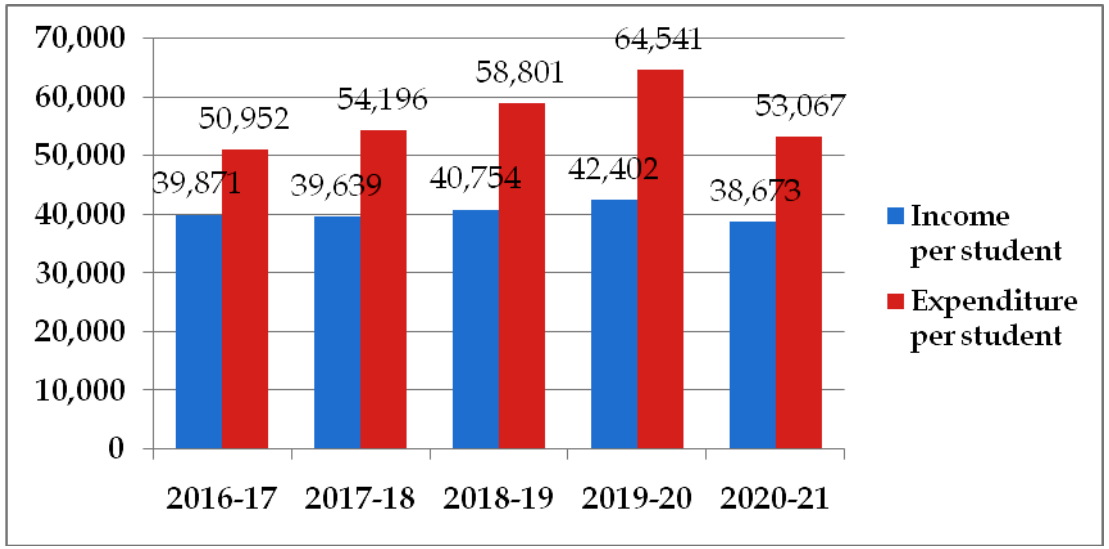
Item	Budgeted	Utilization	% of Utilization
Infrastructure Built-up	6,400,000	6,346,824	99.17
Library	725,000	714,159	98.50
Laboratory Equipment	275,000	273,600	99.49
Research & Development	850,000	814,954	95.88
Total Non Recurring	**8,250,000**	**8,149,537**	**98.78**
Teaching & Non-Teaching Salaries	**80,000,000**	**83,562,881**	**104.45**
Maintenance and Spares	2,500,000	2,440,988	97.64
Laboratory Consumables	75,000	73,406	97.87
Training & Travel	300,000	285,027	95.01
Miscellaneous Exp.	600,000	575,274	95.88
Administration and Finance Cost	32,500,000	32,651,728	100.47
Total Other Recurring Expenditure	**35,975,000**	**36,026,423**	**100.14**
TOTAL	**124,225,000**	**127,738,841**	**102.83**

Table 5: CFYm4 2016-2017

Item	Budgeted	Utilization	% of Utilization
Infrastructure Built-up	6,840,000	6,652,922	97.26
Library	825,000	776,399	94.11
Laboratory Equipment	370,000	360,257	97.37
Research & Development	900,000	865,509	96.17
Total Non Recurring	**8,935,000**	**8,655,085**	**96.87**
Teaching & Non-Teaching Salaries	**66,000,000**	**68,291,820**	**103.47**
Maintenance and Spares	1,650,000	1,583,479	95.97
Laboratory Consumables	110,000	105,948	96.32
Training & Travel	500,000	467,375	93.48
Miscellaneous Exp.	425,000	416,038	97.89
Administration and Finance Cost	32,000,000	31,097,641	97.18
Total Other Recurring Expenditure	**34,685,000**	**33,670,481**	**97.08**
TOTAL	**109,620,000**	**110,617,386**	**100.91**

Table 6: Statement of Income and Expenditure per student

Financial Year	Total Income	Total Expenditure	Adjustment from Other Units	Income per student	Expenditure per student
2016-17	86,558,949	110,617,386	24,058,437	39,871	50,952
2017-18	93,429,180	127,738,841	34,309,661	39,639	54,196
2018-19	100,050,510	144,356,363	44,305,853	40,754	58,801
2019-20	100,408,508	152,832,520	52,424,012	42,402	64,541
2020-21	96,255,983	132,083,866	35,827,883	38,673	53,067



Utilization:

- Total utilization of allocated funds to majority elements has been at a healthy range of 91% to 106% of the budgeted expenditure in the past 5 years
- Salaries at the institution have increased by 41.59% from 2016-17 to 2018-19 indicating an average growth of 13% per annum indicating a healthy improvement in staff numbers and also healthy increments for the staff members.
- An appropriate utilization of allocated fund to Infrastructure Built-up has been taken place in all the assessment years, which indicates the institute is able to accrue a significant portion of the nonrecurring expenditure from internal accruals indicating a healthy growth.
- Total nonrecurring expenditure has increased from 0.86 crores to 2.47 crores from 2016-17 to 219-20 due to the focus of the institution on infrastructure improvement and establishing state of the facilities
- The expenditure over income of the institute stand for the cost incurred for infrastructure development which is adjusted from the other units of Lavu Educational society which indicates the commitment of the institution towards its vision to provide competent women technical power keeping the demands of the industry along with providing a robust economic boost to the family in the form of a technically educated and trained woman professional.

10.2.3. Availability of the audited statements on the institute's website (5)

(The institution needs to make audited statements available on its website)

YES, The institution needs to make audited statements available on its website

2020-21	YES	www.view.edu.in
2019-20	YES	www.view.edu.in
2018-19	YES	www.view.edu.in
2017-18	YES	www.view.edu.in
2016-17	YES	www.view.edu.in

10.3 Program Specific Budget Allocation, Utilization (30)

Total Income at Institute level: For CFY, CFY*m*1, CFY*m*2, CFY*m*3 and CFY*m*4

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2)

CFYm3 : (Current Financial Year minus 3) and

CFYm4 : (Current Financial Year minus 4)

Table 1 :: CFY 2020-21

Total Budget:	35,959,000	Actual expenditure:	35,728,480	Total No. of students :	588
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student	
10,298,000	25,661,000	9,893,471	25,835,009	60,763	

Table 2 :: CFYm1 2019-20

Total Budget:	37,459,000	Actual expenditure:	37,433,641	Total No. of students :	580
Non Recurring	Recurring	Non Recurring	Non Recurring	Expenditure per student	
8,979,000	28,480,000	8,367,561	29,066,080	64541	

Table 3 :: CFYm2 2018-19

Total Budget :	34,310,000	Actual expenditure:	33,928,155	Total No. of students :	577
Non Recurring	Recurring	Non Recurring	Non Recurring	Expenditure per student	
2,900,000	31,410,000	1,953,961	31,974,195	58801	

Table 4 :: CFYm3 2017-18

Total Budget:	29,488,000	Actual expenditure:	30,241,100	Total No. of students :	558
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student	
2,038,000	27,450,000	1,999,546	28,241,554	54196	

Table 5 :: CFYm4 2016-17

Total Budget:	26,587,000	Actual expenditure:	26,749,944	Total No. of students :	525
Non Recurring	Recurring	Non Recurring	Non Recurring	Recurring	
2,467,000	24,120,000	2,157,036	24,592,908	50952	

Table 6 :: Summary of allocation and expenses

Items	**Budgeted in 2020-21**	**Actual Expenses in 2020-21**	**Budgeted in 2019-20**	**Actual Expenses in 2019-20**	**Budgeted in 2018-19**	**Actual Expenses in 2018-19**	**Budgeted in 2017-18**	**Actual Expenses in 2017-18**	**Budgeted in 2016-17**	**Actual Expenses in 2016-17**
Laboratory Equipment	108,000	105,467	195,000	193,646	700,000	659,152	65,000	64,773	92,000	87,119
Software	7,405,000	7,048,378	960,000	930,748	695,000	644,128	20,000	19,055	15,000	14,224
Laboratory Consumable	10,000	10,021	24,000	22,276	30,000	26,756	18,000	17,378	25,000	25,621
Maintenance and Spares	220,000	212,521	855,000	854,845	860,000	794,494	600,000	577,883	400,000	382,923
R&D	225,000	221,739	610,000	606,321	100,000	91,014	200,000	192,933	225,000	209,301
Training and Travel	16,000	15,556	50,000	50,943	40,000	38,394	70,000	67,478	120,000	113,023
Miscellaneous Expense	167,000	154,177	48,000	47,694	60,000	54,784	28,000	27,238	20,000	20,122
Total	**8,151,000**	**7,767,859**	**2,742,000**	**2,706,471**	**2,485,000**	**2,308,722**	**1,001,000**	**966,739**	**897,000**	**852,332**
Other Recurring & Non-recurring Exp	*27,808,000*	*27,960,621*	*34,717,000*	*34,727,170*	*31,825,000*	*31,619,433*	*28,487,000*	*29,274,361*	*25,690,000*	*25,897,612*
Total Expenditure	**35,959,000**	**35,728,480**	**37,459,000**	**37,433,641**	**34,310,000**	**33,928,155**	**29,488,000**	**30,241,100**	**26,587,000**	**26,749,944**

10.3.1. Adequacy of budget allocation (10)

(Program needs to justify that the budget allocated over the assessment years was adequate for the program)

Table 1 :: CFY 2020-21

Items	Budgeted	% of Allocation
Laboratory Equipment	108,000	1.32
Software	7,405,000	90.85
Laboratory Consumable	10,000	0.12
Maintenance and Spares	220,000	2.70
R&D	225,000	2.76
Training and Travel	16,000	0.20
Miscellaneous Expense	167,000	2.05
Total Expenditure	**8,151,000**	**100.00**

Table 2 :: CFYm1 2019-20

Items	Budgeted	% of Allocation
Laboratory Equipment	195,000	7.11
Software	960,000	35.01
Laboratory Consumable	24,000	0.88
Maintenance and Spares	855,000	31.18
R&D	610,000	22.25
Training and Travel	50,000	1.82
Miscellaneous Expense	48,000	1.75
Total Expenditure	**2,742,000**	**100.00**

Table 3 :: CFYm2 2018-2019

Items	Budgeted	% of Allocation
Laboratory Equipment	700,000	28.17
Software	695,000	27.97
Laboratory Consumable	30,000	1.21
Maintenance and Spares	860,000	34.61
R&D	100,000	4.02
Training and Travel	40,000	1.61
Miscellaneous Expense	60,000	2.41
Total Expenditure	**2,485,000**	**100.00**

Table 4 :: CFYm3 2017-2018

Items	Budgeted	% of Allocation
Laboratory Equipment	65,000	6.49
Software	20,000	2.00
Laboratory Consumable	18,000	1.80
Maintenance and Spares	600,000	59.94
R&D	200,000	19.98
Training and Travel	70,000	6.99
Miscellaneous Expense	28,000	2.80
Total Expenditure	**1,001,000**	**100.00**

Table 5 :: CFYm4 2016-2017

Items	Budgeted	% of Allocation
Laboratory Equipment	92,000	10.26
Software	15,000	1.67
Laboratory Consumable	25,000	2.79
Maintenance and Spares	400,000	44.59
R&D	225,000	25.08
Training and Travel	120,000	13.38
Miscellaneous Expense	20,000	2.23
Total Expenditure	**897,000**	**100.00**

Analysis on Adequacy:

- The total budget allocated as per the requirements of the Department to meet the established norms of statutory bodies.
- Total budget of the department has increased during the 5 years from 2016-17 to 2020-21 which is in lines with the increase in student strength. As a result of Covid pandemic the budget of the department in 2020-21 slightly fell down.
- In order to develop effective teaching-learning process among the students and staff, allocated an average of 51.28% of department budget towards software equipment during the last three years.
- To meet the curriculum requirements, established a new computer laboratory with necessary equipment.

- All the labs are well established and maintain the consistency of labs and renovations of labs allocated major budget for maintenance and spares
- To develop employability as well as entrepreneurship skills including **Product Development Training** and also promote more research activities among the students and staff, faculty members are motivated to participate in workshops and FDPs, so that spent more budget for R&D.

10.3.2 Utilization of Allocated Funds (20)

(Program needs to state how the budget was utilized during the last three assessment years)

Table 1 :: CFY 2020-21

Item	Budgeted	Utilization	% of Utilization
Laboratory Equipment	108,000	105,467	97.65
Software	7,405,000	7,048,378	95.18
Laboratory Consumable	10,000	10,021	100.21
Maintenance and Spares	220,000	212,521	96.60
R&D	225,000	221,739	98.55
Training and Travel	16,000	15,556	97.22
Miscellaneous Expense	167,000	154,177	92.32
Total Expenditure	**8,151,000**	**7,767,859**	95.30

Table 2 :: CFYm1 2019-20

Item	Budgeted	Utilization	% of Utilization
Laboratory Equipment	195,000	193,646	99.31
Software	960,000	930,748	96.95
Laboratory Consumable	24,000	22,276	92.82
Maintenance and Spares	855,000	854,845	99.98
R&D	610,000	606,321	99.40
Training and Travel	50,000	50,943	101.89
Miscellaneous Expense	48,000	47,694	99.36
Total Expenditure	**2,742,000**	**2,706,471**	**98.70**

Table 3 :: CFYm2 2018-2019

Item	Budgeted	Utilization	% of Utilization
Laboratory Equipment	700,000	659,152	94.16
Software	695,000	644,128	92.68
Laboratory Consumable	30,000	26,756	89.19
Maintenance and Spares	860,000	794,494	92.38
R&D	100,000	91,014	91.01
Training and Travel	40,000	38,394	95.98
Miscellaneous Expense	60,000	54,784	91.31
Total Expenditure	**2,485,000**	**2,308,722**	**92.91**

Table 4 :: CFYm3 2017-2018

Item	Budgeted	Utilization	% of Utilization
Laboratory Equipment	65,000	64,773	99.65
Software	20,000	19,055	95.28
Laboratory Consumable	18,000	17,378	96.55
Maintenance and Spares	600,000	577,883	96.31
R&D	200,000	192,933	96.47
Training and Travel	70,000	67,478	96.40
Miscellaneous Expense	28,000	27,238	97.28
Total Expenditure	**1,001,000**	**966,739**	**96.58**

Table 5 :: CFYm4 2016-2017

Item	Budgeted	Utilization	% of Utilization
Laboratory Equipment	92,000	87,119	94.69
Software	15,000	14,224	94.83
Laboratory Consumable	25,000	25,621	102.48
Maintenance and Spares	400,000	382,923	95.73
R&D	225,000	209,301	93.02
Training and Travel	120,000	113,023	94.19
Miscellaneous Expense	20,000	20,122	100.61
Total Expenditure	**897,000**	**852,332**	**95.02**

Utilization:

- Proposed budget sanctioned by the management, we purchased the lab equipment and software and also given training to the students as well as faculty as per the vision and mission of the Department.
- Total utilization has been at a healthy range of 90% to 102% of the budgeted expenditure in the past 5 years.
- The department is able to accrue a significant portion of the nonrecurring expenditure from internal accruals indicating a healthy growth.
- Total expenditure of the department drastically increased during the 5 years from 2016-17 to 2020-21 due to the focus of the department on infrastructure improvement and establishing state of the facilities.

10.4. Library and Internet (20)

(Indicate whether zero deficiency report was received by the Institution for all the assessment years. Effective availability/ purchase records and utilization of facilities/equipment etc. to be documented and demonstrated)

The Institute Central Library aims to providing access to its Printed resources as well as Electronic Resources for the use of faculty and Students at the college campus. The Staff and students have unlimited access to a wealth of Information found in resources like books, magazines, Journals, Hand Books, Annual reports and the Internet. In addition, the library offers specious seating arrangements and a calm ambience for learning.

Zero Deficiency:

Table 10.16 Zero Deficiency report

Academic Year	Zero deficiency report received by the Institute from AICTE	Application No.
2020-21	YES	1-7004821423
2019-20	YES	1-4261476817
2018-19	YES	1-3514059264
2017-18	YES	1-3325461133
2016-17	YES	1-2812749429

Library Data Base

Table 10.17 Details of Library

Carpet area of library (in m2)	571.91Sq. Mts
Reading space (in m2)	275 sq Mts
Number of seats in reading space	175
Number of users (issue book) per day	210 – Issues & Returns (App)
Number of users (reading space) per day	350 (App)
Timings: During working day	7:30 am to 5:30 pm
Number of library staff	03 +1
Number of library staff with a degree in Library	02
Library Management	01
Computerization for search, indexing	Yes
Issue/return records bar coding used	Yes
Library services on Internet	Yes
DELNET Membership	Yes
Archives	Question Papers, Projects, CDs, News paper Clippings, Syllabus etc

Library Expenditure

Table 10.18 Expenditure Details of Library

Academic Year	Books	Periodicals & Journals	Total Expenditure
2020-21	3,56,050.00	82,973.00	4,39,023.00
2019-20	2,13,977.00	1,60,546.00	3,74,523.00
2018-19	4,38,922.00	3,50,537.00	7,89,459.00
2017-18	7,93,510.00	1,50,441.00	9,43,951.00
2016-17	8,62,665.00	60,661.00	9,23,326.00

10.4.1. QUALITY OF LEARNING RESOURCES (HARD/SOFT) (10)

The central Library is a proud partner in the Institute's march towards its vision playing a vital role in acquisition, organization and dissemination of knowledge. The main thrust of the library continues to be the improvement of the quality of services and facilities, achieving higher degree of user's satisfaction and modernization of its activities and operations. The Central Library is totally Air Conditioned, presently covers a total user area of 571.91 sq. mtrs, with a seating capacity of 175 and caters to the information needs of the faculty, staff and students. The Central Library has Text book section, Circulation section, Reference books, Periodical Section with rich collection of Journals and books. The separate departmental libraries are establishment in each department for quick access purpose in addition to the central library.

Library Collection:

The Vignana Vahini Library has a huge collection of 27784 books with 5676 titles on various subjects including technical, managerial and humanities and reference books covering biographies, dictionaries, yearbooks etc. The library subscribes 108 National, International print journals and Magazines, 5230 e-journals, and holds over 1018 project reports. The Learning materials, Previous Question Papers, Project Reports of all departments are made available

Library e-Resources:

The Digital Library has 20 computers and several E- Resource of e-journals, e-books, video lectures (like NPTEL), audio lectures of various publisher are made available in the Digital Library for effective teaching learning process.

Library Automation and Security:

The Central Library employs Barcode technology for access control, automatic issue and return of library books. Automation of library services enables library staff to assist the students for more time in their search for quality learning resources.

10.4.1.1 Relevance and availability of learning resources:

The procurement of the books is decided based on the library advisory committee which consists of all the departments. Selected students from III and IV year of Engineering are also members of the library advisory committee. This committee recommends the titles and authors which are relevant for the courses, and of latest publications. The committee also recommends on the procurement of e-books and e-journals. We implement all the recommendations of the advisory committee.

The following table gives the number of titles and volumes available in central library.

No of Titles and Volumes: 30-09-2021 No. of Titles: 5676 No. of Volumes: 27784		
Academic Year	**No. of Titles added**	**No. of Volumes added**
2020-21	161	580
2019-20	126	555
2018-19	124	1039
2017-18	183	1708
2016-17	181	1702

The below table gives the number of titles and volumes program wise in the central library.

Table 10.19 Program Wise Number of Titles and Volumes

S. No	**Subject**	**No. of Titles**	**No. of Volumes**
1	Computer Science Engineering	725	4030
2	Information Technology	641	2989
3	Electronics and Communication Engineering	729	3827
4	Electrical and Electronics Engineering	608	3458
5	Mechanical Engineering	378	2147
6	Master of Business Administration	247	1661
7	Science & Humanities	199	2554
8	General Books	140	564
	Total	**3667**	**21230**
9	E-Books	2009	6554
		5676	**27784**
10	Book Bank Books :		
	i) SC BOOKS	93	165
	ii) ST BOOKS	25	25

Scholarly Journal Subscription:

Academic Year	No. of Total Technical Journals/Magazines subscribed (Hard Copy)	Internationally acclaimed titles in (Softcopy)
2020-21	55	• IEEE • IEI • J-Gate • DELNET • N-Digital
2019-20	108	• IEEE • IEI • J-Gate • DELNET • N-Digital
2018-19	104	• IEEE • IEI • J-Gate • DELNET • N-Digital
2017-18	101	• IEEE • IEI • J-Gate • DELNET • N-Digital

Availability of Digital Library Contents:

Following digital contents are made available

Content	Accessibility	
NPTEL Video Lecture	Access Provided to NPTEL Video Lecture Content	YES, through local Server
National Digital Library of India (NDL) IIT Kharagpur	Membership to NDL Digital Library of India	YES
Availability over Intranet /Internet	YES	
No. of users per day:	25 - 35 Per Day	

10.4.1.2 Accessibility to Students:

1. The Library is open for all users from 7.30 am to 5.30 pm. The library hours are extended on the basis of need during examinations.
2. Regular class time tables of all programs allot one period a week for library study.
3. The students utilize the library study period. In addition, many students spend many more hours in the library studying on their own.
4. The use of library by students is generally more during examination period.
5. Digital Library is also available to the students with free internet Access.
6. The library provides IP enabled access to a large number of full texts online journal databases from the various publishers.
7. In the library the staff helps the students to register National Digital Library for self learning. The staff also helps the students to register with NDL.

10.4.1.3 Support to students for self learning activities

1. A digital library is setup to facilitate online access of the information.
2. The search and download functions are free of cost for all the users.
3. Students can access digital resources through the systems and download the required books / publications.
4. NPTEL (National Project on Technology Enhanced Learning): Access to online learning material prepared by IIT and other esteemed institutions are hosted on institution server.
5. Institute is registered as member of National Digital Library (NDL) & DELNET
6. Each student is given 3 library cards using which he/she can lend 3 books for 15 days.
7. The borrowed books can be renewed before the due date

10.4.2. INTERNET (10)

The entire campus is Wi-Fi enabled to all the students and faculty members. A state-of-the-art campus network with a 100 Mbps Leased line Internet connection offer unlimited access of Internet for the students and staff round the clock, for their educational and research needs.

Table 10.20 Details of Internet

S. No	Particulars	
1	Name of Internet Provider	Idea Cellular Limited and Bharti Airtel Limited
2	Available Bandwidth	100 Mbps
3	WiFi Availability	40 Mbps (Reliance Jio) Wi-Fi connectivity is available in and around the campus
4	Internet access in labs, classrooms, library and office of all departments	Yes. Internet is accessible in all computer labs, classrooms, Library and department offices
5	Security Arrangements	Quick heal Antivirus with firewall protection

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE & Affiliated to JNT University, Kakinada) Estd. 2008
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, VSEZ (Post), Visakhapatnam-530 049, Andhra Pradesh, India
Phone : 9133300357, 8886066339 :: Fax : 0891-2010485
E-mail : view.office2008@gmail.com, viewprincipal@gmail.com website : www.vignanview.org

Declaration

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institutes hall fully abide by them.

It is submitted that information provided in this Self Assessment Report is factually correct.

I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Head of the Institute

Place : Visakhapatnam
Date : 01/11/2021

Name : Dr. Sudhakar Jyothula
Designation : Principal

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.