




Experiential Learning

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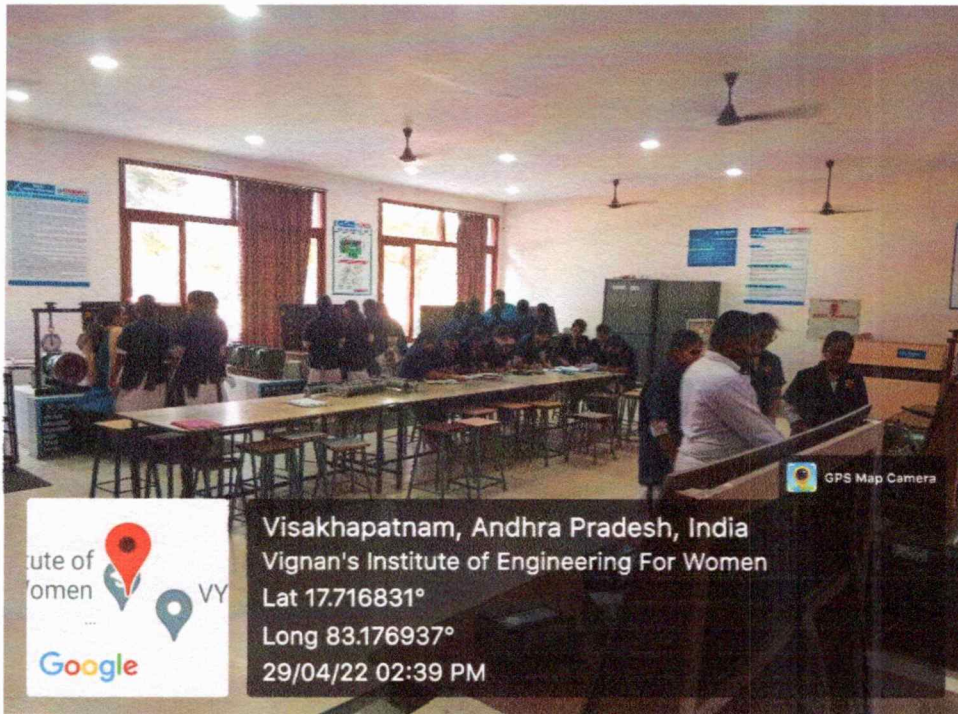

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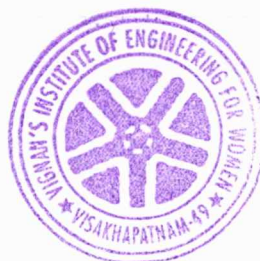
LABORATORY COURSES AS PER THE CURRICULUM: The curriculum is enriched with laboratory courses that allow the student to perform experiments to the theoretical concepts learnt in the classroom.

Instructional Hours & Credits allotted for Lab courses in the Curriculum

S. No	Program	R20 Regulation		R19 Regulation		R16 Regulation	
		Instructional Hours	Credits	Instructional Hours	Credits	Instructional Hours	Credits
1	ECE	50	32.5	36	18	34	24
2	CSE	51	26.5	28	14	36	24
3	EEE	49	24.5	33	17	34	24
4	IT	55	32.5	28	14	33	24
5	ME	49	26.5	34	18	34	24
Total		254	142.5	159	81	171	120



Students of EEE conducting experiments in “**Electrical Machines**” Laboratory



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Students of ME conducting experiments in “Instrumentation & Control Systems” Lab



Students of ECE conducting experiments in “Microprocessors & Microcontrollers” Lab

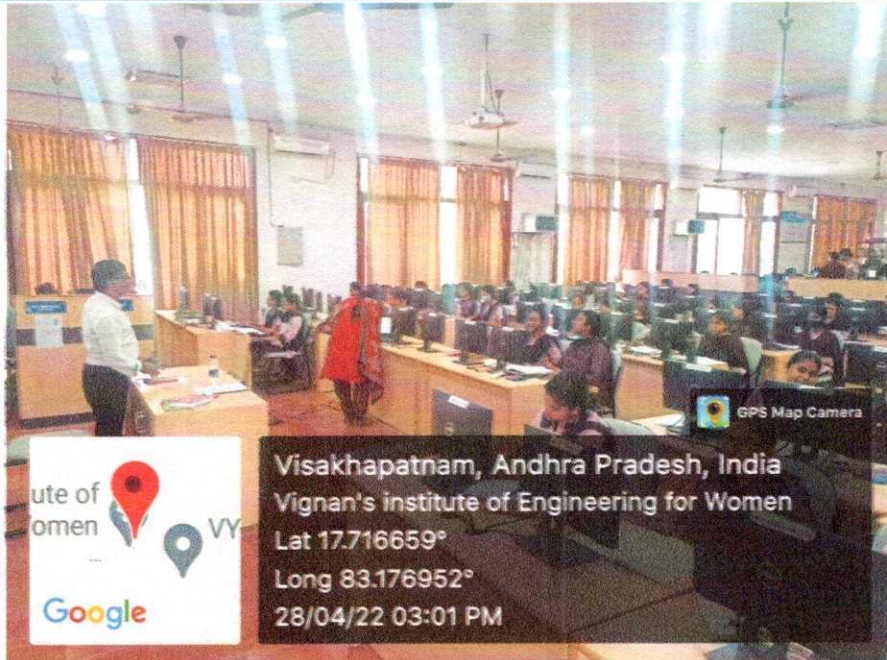


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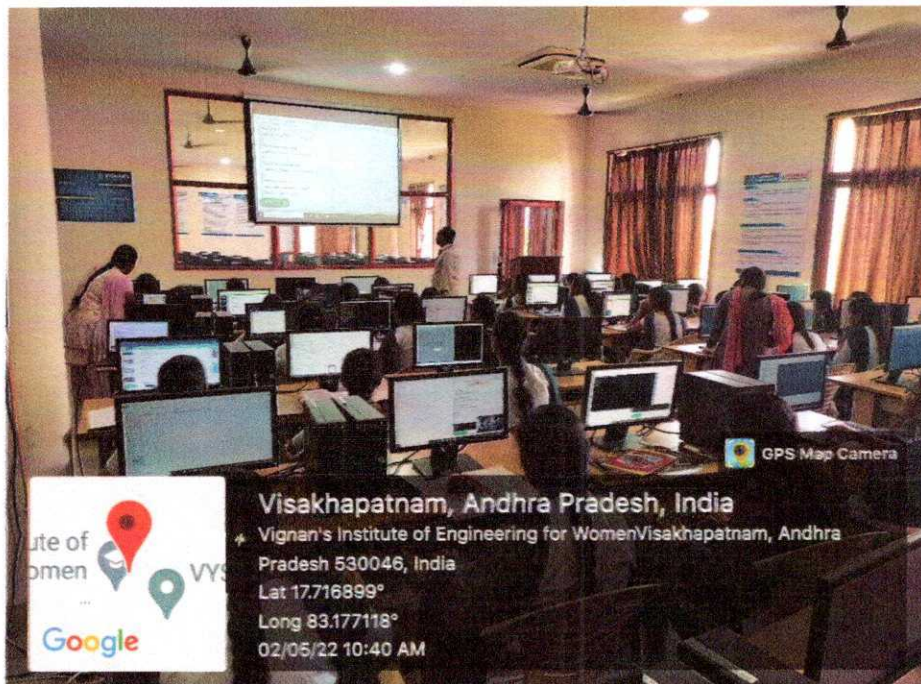


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Students of CSE conducting experiments in “Programming through C” Lab



Students of IT conducting experiments in “Unified Modeling Language” Lab



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**Licensed Software Tools**

Regulation: R19		Program: Electronics & Communication Engineering	
Name of the Course		Software	
Switching Theory and Logic Design-Lab	Logisim	Open source	
Electronic Circuit Analysis-Lab	Multi Sim	Open source	
Analog Communications Lab	MATLAB	Licensed	
Digital IC Applications Lab	XiLinx - Vivado	Licensed	
Micro Processors & Micro Controllers Lab	Kiel Micro Vision4/5 & TASM PROTEUS	Open source	
VLSI Lab	Mentor Graphics	Licensed	
Digital Signal Processing Lab	MATLAB, CCSTUDIO	Licensed	
Internet of Things Lab	Tinker CAD	Open source	
Regulation: R19		Program: Computer Science Engineering	
Name of the Course		Software	
Python Programming Lab	Python-3.9	Open source	
Data Structures through C++Lab	Dev C++	Open source	
Java Programming Lab	JDK-1.6	Open source	
Database Management Systems Lab	ORACLE 10G	Open source	
Computer Networks Lab	Dev C++	Open source	
AI Tools & Techniques Lab	Prolog	Open source	
Data Mining Lab	R-Studio-4.1, Weka-3.8	Open source	
Web Technologies Lab	J2ME	Open source	
UML Lab	Star UML-5.0	Open source	
Regulation: R19		Program: Electrical & Electronics Engineering	
Name of the Course		Software	
Electrical Circuits Laboratory	Simulink	Open source	
Control Systems Laboratory	Simulink	Licensed	
Microprocessors & Microcontrollers Laboratory	Kiel Micro Vision4/5 & TASM PROTEUS	Open source	
Linear & Digital IC Applications Laboratory	Logisim	Open source	
Power Systems & Simulation Laboratory	MATLAB	Licensed	
Regulation: R19		Program: Information Technology	
Name of the Course		Software	
Java Programming Lab	JDK-1.6	Open source	
UNIX Operating Systems Lab	Virtual Box-6.1	Open source	
Database Management Systems Lab	ORACLE 10G	Open source	
Computer Networks & Compiler Design Lab	Dev C++, Turboc-7	Open source	
AI Tools & Techniques Lab	Prolog	Open source	
Web Technologies Lab	J2ME	Open source	
Data Mining Lab	R-Studio-4.1, Weka-3.8	Open source	
Unified Modeling Language (UML)Lab	Star UML-5.0	Open source	
Regulation: R19		Program: Mechanical Engineering	
Name of the Course		Software	
Simulation of Mechanical Systems Lab	MATLAB	Open source	
CAD/CAM Lab	Ansys, Catia	Open source	
Finite Element Simulation Lab	Ansys	Open source	



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INDUSTRY SUPPORTED LABORATORIES: 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.

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.

List of Equipment in Embedded & IoT Lab

S. No.	Item	Quantity
1	IoT development Board self-starter learning Arduino Kit	9
2	MSP-430 EXP G2 Launch Pad	30
3	MSP-EXP430F5529 Experimenter Board	2
4	RF Booster CC110L	5
5	STEPS Experimental Pack for MSP 430	10
6	MSP-EXP 430F5529LP	10
7	BOOST-DAC8568	2
8	MSP 430 Lunch Box	150



3/10
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The projects developed in the Embedded & IoT labs are listed as:

Sl. No.	Student Details	Project Title	Description	Prototype
1.	Students of IV B Tech II Sem (2017-18) developed this prototype as their project work 14NM1A0412- B. T. Lakshmi 14NM1A0450- K. Annapurna 14NM1A0448- J. Gayathri 14NM1A0453- K. V. Sravani	IoT Based Smart Parking Security System	The system works on ultrasonic sensor and the hardware is controlled by Arduino. If the vehicle belongs to unauthorized user, the ultrasonic sensor detects the vehicle and gives an alert message to authorized user. Smartphone is used for interaction between parking security system and the authorized user.	
2.	Students of IV B Tech II Sem (2017-18) developed this prototype as their project work 14NM1A0463- M. Sirisha 14NM1A0451- K. Uma Devi 14NM1A0433- G. Leelavathi 14NM1A0415- B. G. Lakshmi	IoT Based Infant Abduction Security System	With IoT based infant abduction security system, the manual effort on the part of the nursing staff will be reduced. As the entire proposed system is automated, it requires very less human intervention. It will continuously check the status of the baby and an alert message will be sent to the nurses, doctors, caretakers when the baby is absent.	
3.	Students of IV B Tech II Sem (2017-18) developed this prototype as their project work 14NM1A04F9- R. Mounica 15NM5A0413- S. Adi Lakshmi 14NM1A04E3- K. P. Renuka 15NM5A0409- B. V. Lakshmi	IoT Based smart IV fluid detection	The system is built on the basis of IoT. IR sensor is used to determine the amount of fluid in the saline bottle. Whenever the level of IV fluid reaches to pre-defined critical value then nurses or caretakers will be alerted through GSM or Buzzer or LCD.	





4.	<p>Students of IV B Tech II Sem (2018-19) developed this prototype as their project work 16NM5A0405- B. Sravani 15NM1A0426- D. S.K. Sravanthi 15NM1A0412-B. Rajani 15NM1A0460- K. G. Madhuri</p>	<p>IoT Based Weather Monitoring System using Raspberry Pi Board.</p>	<p>This project aim is to create a prototype system which employs an embedded system using raspberry pi 3b+ board with a sensehat device for monitoring weather parameters like Temperature, Humidity and Pressure using Internet of things (IOT).</p>	
5.	<p>Students of IV B Tech II Sem (2019-20) developed this prototype as their project work 17NM5A0404- B. Sagarika 16NM1A0405- A. Swathi 16NM1A0426- Ch. D. Lakshmi 16NM1A0443- G. Rajeswary</p>	<p>IoT Based water quality monitoring system</p>	<p>In this project, several sensors are used to measure physical and chemical parameters of the water. The micro controller senses the PH, temperature, conductivity, turbidity values from the sensors and sends them to the Think Speak through the Wi-Fi module and as well as it will be displayed on LCD.</p>	
6.	<p>Students of IV B Tech II Sem (2019-20) developed this prototype as their project work 16NM1A04F2- V. J. Rajeswari 17NM5A0416-K. Santhi Priya 17NM5A0427- S. Firdos 17NM5A0429- S. N. Kousar</p>	<p>IoT Based gas leakage and fire alert system</p>	<p>A GSM and GPS based fire and gas leakage alert system prototype has been designed using Arduino UNO +Wi-Fi R3 Atmega+ ESP8266 board.</p>	
7	<p>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</p>	<p>Smart parking system</p>	<p>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</p>	



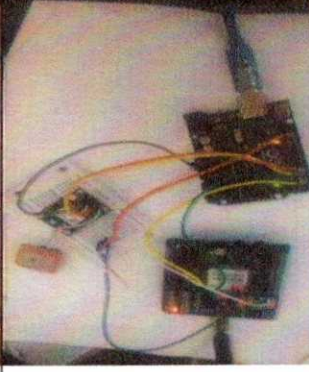
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8	18NM Students of III B Tech II Sem (2020-21) developed this prototype as their project work 18NM1A0548 - G.Nandini 18NM1A0539 - G.Roja devi 18NM1A0505 - A.Deva divyya 18NM1A0530- D.Prasanna Priya	Smart irrigation through IoT	It helps in conserving water by automatically providing water to the plants/field depending on the water requirements	
9	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.	
10	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	Finger 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.	





11	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	
12	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.	
13	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.	
14	Students of IV B Tech II Sem (2018-19) developed this prototype as their project work 15NM1A0578-P. Sairajeivi 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.	



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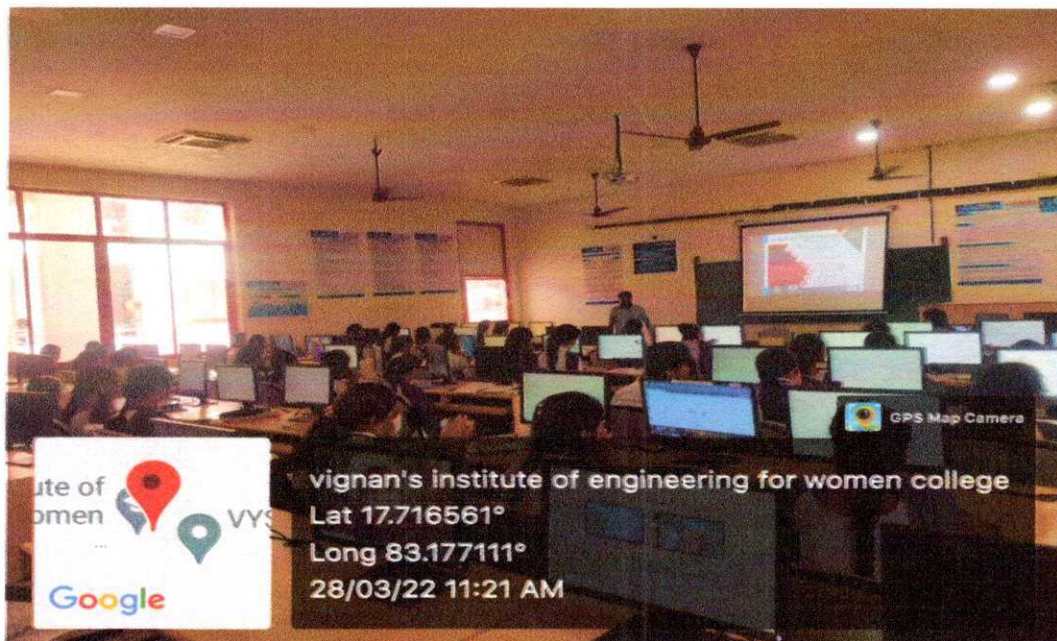
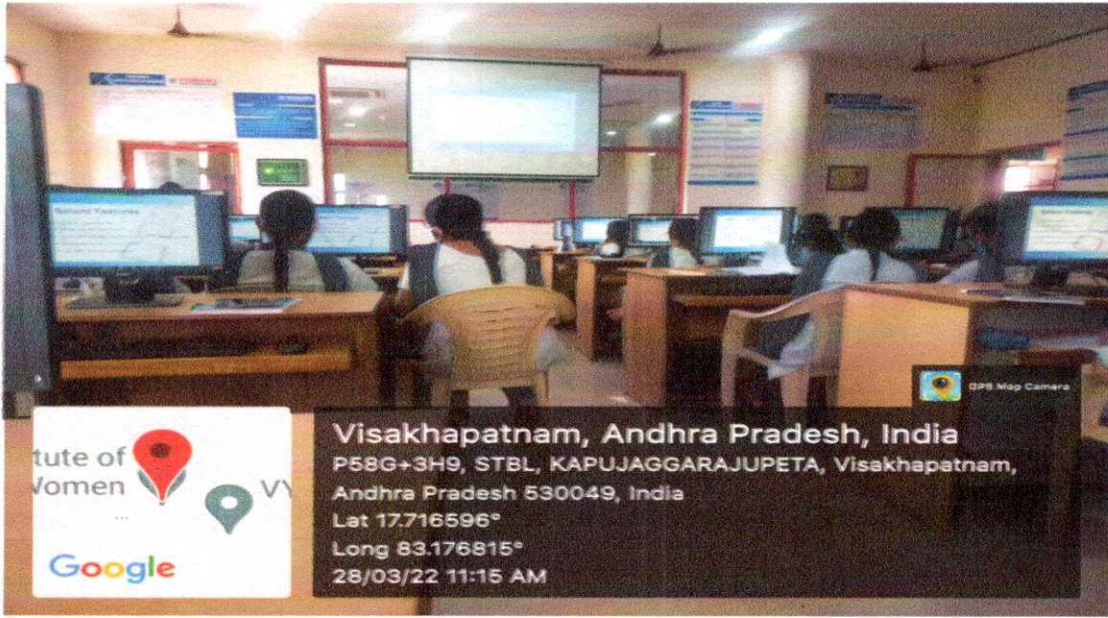
15	Students of IV B Tech II Sem (2018-19) developed this prototype as their project work 16NM5A0504- G. Lakshmi 16NM1A05G1- K. Katayani 16NM1A05H7- M.T.Akanksa 16NM1A05G3- K.DivyaSri	Road Accident Alert System	This prototype is used to send information to the nearest police station whenever an accident 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	
16	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. Gnanani 16NM5A0509-P. N. Ratnam 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.	




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VIRTUAL LABORATORIES: Vignan's Institute of Engineering for Women is a nodal center for Virtual labs as a participating institute by NMEICT- MoE, Govt. of India, Center for System Design, National Institute of Technology Karnataka, Surthkal. As a part of this, students perform remote experimentation on the contents beyond the syllabus to upgrade their knowledge.



Students' performing experiments through Virtual Labs



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INDUSTRIAL VISITS: The industrial visits evolve solutions for case studies where the classroom theoretical knowledge will be put to understanding and concept evaluation. The students will acquire a new way of looking at the concepts learnt in the class. It also provides technical exposure to the students about current trends in the technology.

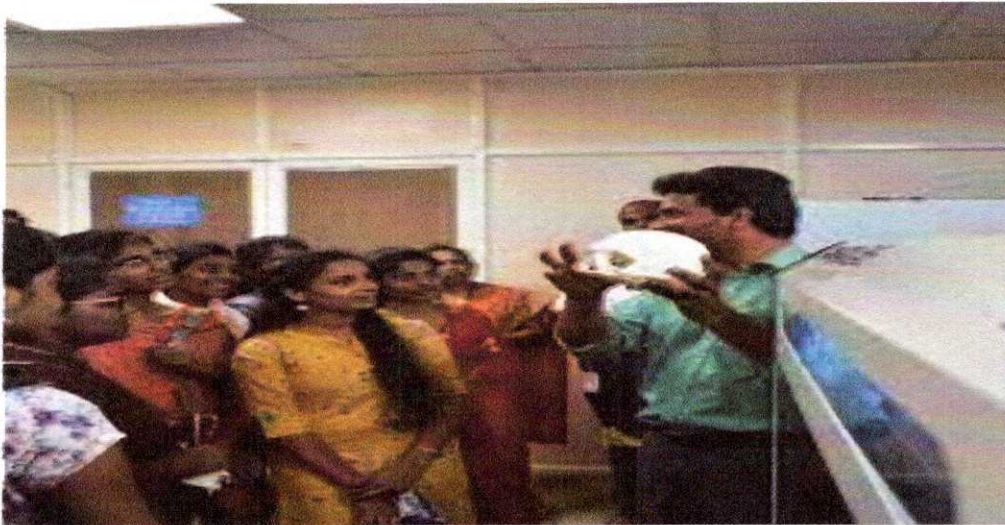


Industrial Visit to Doppler RADAR Station by the III ECE students on 30-06-2016



Industrial Visit to ALL INDIA RADIO by II ECE students on 26-06-2018





Industrial Visit to AP MED TECH ZONE by CSE students on 02-08-2019



Industrial Visit to ISRO- Sriharikota by IV ECE students on 30-01-2020



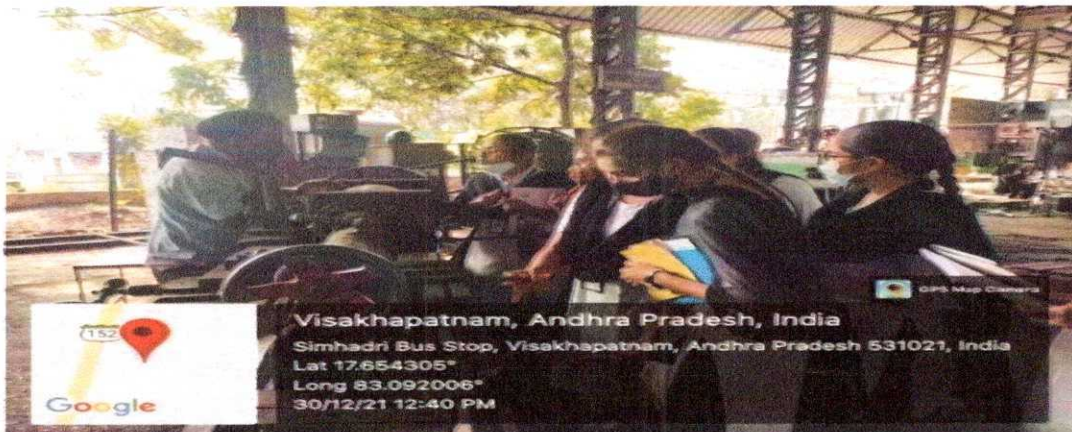
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Industrial Visit to MSME by the students of II ME department on 30-10-2021



Industrial Visit to BDL by the students of II IT on 17-12-2021



Industrial Visit to SIMHADRI STEELS by the students of III ME department on 30-12-2021



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INTERNSHIPS/ SUMMER TRAINING PROGRAMS: 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 fifteen days. The training helps them to think innovatively in solving real time problems and implement as working models.


TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED



CERTIFICATE OF INTERNSHIP

This is to certify that Gujju Sai priya (18NM5A0212) ,D/o.
G.Roop Kumar Reddy , a student of Vignans institute of
Engineering for women, duvada have done internship training at
220/132/33 KV Dairy Farm SS, Visakhapatnam, APTRANSCO
for the period from 27-05-2019 to 07-06-2019 as a partial
fulfillment for the award of engineering.


Er. K. VENKATA RAO, ME
Deputy Executive Engineer
Maintenance
220/132/33 KV Dairy farm SS


Er. MSUNDEEP KUMAR
Assistant Executive Engineer
Maintenance
220/132/33 KV Dairy farm SS

Sample copy of certificate received for Internship from APTRANSCO




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D.Ramakrishna Prasad, IB(E)S
उप महानिदेशक(ई)/Deputy Director General(E)

स/No.11(12)/2019-E(I)/Trg.

दिनांक/Date: 25.11.2019

प्रमाणपत्र / CERTIFICATE

प्रमाणित किया जाता है कि विज्ञान इंस्टिट्यूट ऑफ इंजीनियरिंग फार वुमेन, विशाखपट्टणम, के तृतीय वर्ष ई.सी.ई. के छात्रा, **सुषी वेंकट स्नेहिता.के.** 17NM1A04G7, ने आकाशवाणी, विशाखपट्टणम में दिनांक 11.11.2019 से 24.11.2019 तक 2 सप्ताह का औद्योगिक/ परियोजना प्रशिक्षण प्राप्त किया है। इस अवधि के दौरान उन्हें स्टूडियो उपकरणों, 10 कि.वाट एफ.एम. तथा 100 कि.वाट मीडियम वेव ट्रांसमीटरों का अध्ययन कराया गया और तत्संबंधी प्रशिक्षण दिलाया गया।

This is to certify that Ms. **Venkata Snehita Katakam**, 17NM1A04G7, 3rd Year E.C.E. student of Vignans Institute of Engineering for Women, Visakhapatnam has undergone an industrial/project training at All India Radio, Visakhapatnam for 2 weeks from 11.11.2019 to 24.11.2019. During this period, she has been given training and familiarization of the studio equipment, 10 kW FM and 100 kW MW Transmitters.

डी.आर. प्रसाद

(डी.आर.प्रसाद / D.R.PRASAD)

उप महानिदेशक(ई) / Deputy Director General(E)

Sample copy of certificate received for summer training at AIR, Visakhapatnam




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MINI / MAJOR PROJECTS: Students work on projects resourcefully by the facilities provided by the institute. Project batches are formed to carry out mini/major projects. The project work carried by the students reflects the individual and collective work done as a team. The projects carried out by the students is related to the design, synthesis and analysis of contemporary issues related to the society. The students work on finding the solution to real time problems considering the factors such as environment, safety and ethics etc. A sample of mini and major projects carried out by the students are illustrated:

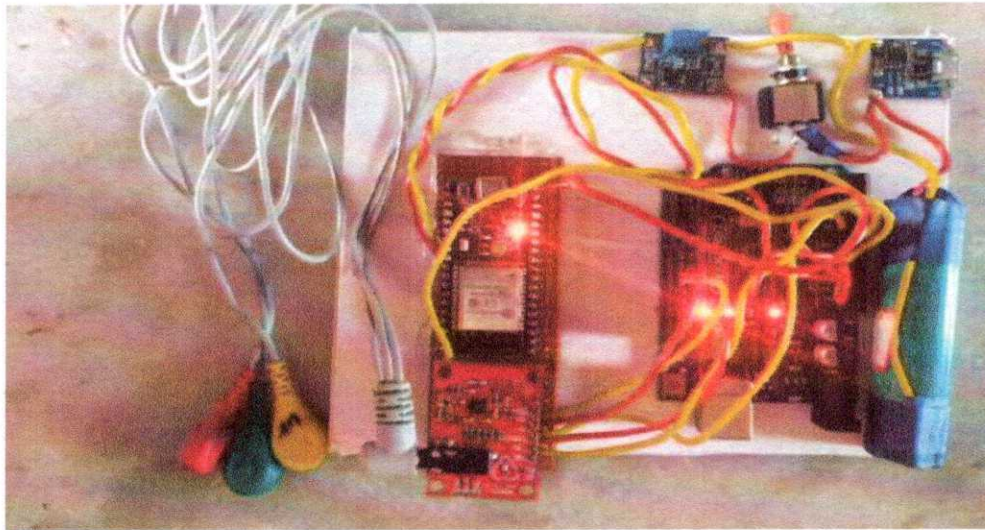


A project on “IoT based Solar Electric Vehicle” carried out by the students of EEE

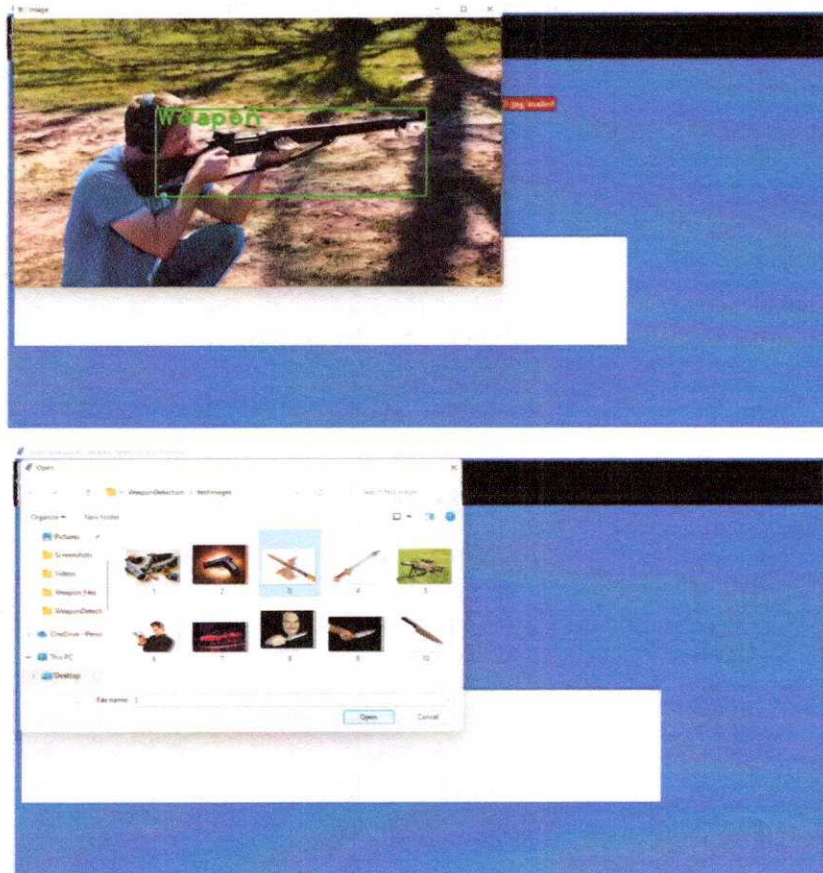


A project on “Design & Fabrication of Electrical Vehicle” by the students of ME





A project on "Proficient Phonocardiogram" by the students of ECE



A project on "Weapon Detection & Alerting" by the students of CSE





ANNUAL FEST: The Annual Fest aims at bringing together students from various colleges with their innovative ideas on a single platform. The fest includes technical events like paper presentation, poster presentation, live model exhibition, Exhibition of Innovative ideas/Products/proposal & many more spot events. The event is organized every year with an objective to provide platform for the students to showcase their talent with a competitive spirit.

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www.techritz2020.com
E-mail : events@vignan.edu.in

Events :

- Paper Presentation
- Poster Presentation
- Technical Quiz
- Expo / Live Projects

Dr. J. Sudhakar
Principal, VIEW

Dr. Lavu Rathaiah
Founder & Chairman, Vignan's Group of Institutions

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Co-Convener : Mr. A.V.Pradeep - 9866317946

N. Sai Sandhya-7095066892
K. Sahithya - 6305540732

Student Co-ordinators
 V. Swathi - 6305703906
K. Yamini - 9573799959
V. Padma Poojitha - 9553673715
K. Sai Vinusha - 9392449988
G. Mahasa - 7337226734

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DRONE COMPETITION
HW BUILT COMPETITION
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Conduct of Annual & Technical Fests



J. Sudhakar
Principal
Vignan's Institute of
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Visakhapatnam-49



Students Participation in Poster Presentations



Students Participation in Model-making Presentations



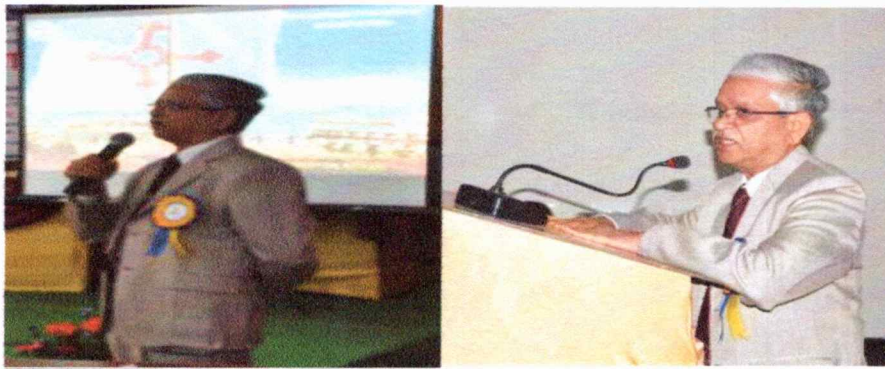
[Handwritten Signature]
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GUEST LECTURES/ EXPERT TALKS: Guest Lectures are arranged to improve the student's skills. Eminent persons from various industries and institutes are invited for talks to students to make them ready for industry needs. The consolidated list of awareness programs, seminars and guest lectures arranged for the last five academic years is shown below:

Consolidated List of Expert Talks, Seminars & Workshops Conducted

S. No	Event	Academic Year				
		2021-22	2020-21	2019-20	2018-19	2017-18
1	Expert Talks/ Guest Lectures	8	14	22	21	21
2	Seminars	10	13	15	14	16
3	Workshops	17	14	32	29	27




Dr. Ch. Durga Malleswar, Scientist-H, Former Director-NSTL, DRDO delivering lecture on "Challenges of working under water"



Dr. Ajit Kumar Panda, Professor & Dean, National Institute of Science & Technology, Berahampur, delivering lecture on "Latest Trends in VLSI"




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WORKSHOPS: Practical Hands-on workshops are arranged to students to get exposure to modern tools. The students' participation in workshops make them gain knowledge on latest technologies and tools and their practices.




Workshop on "PCB Design"

Workshop on "ROBO ZEST"



Workshop on "Smart Grid Automation"



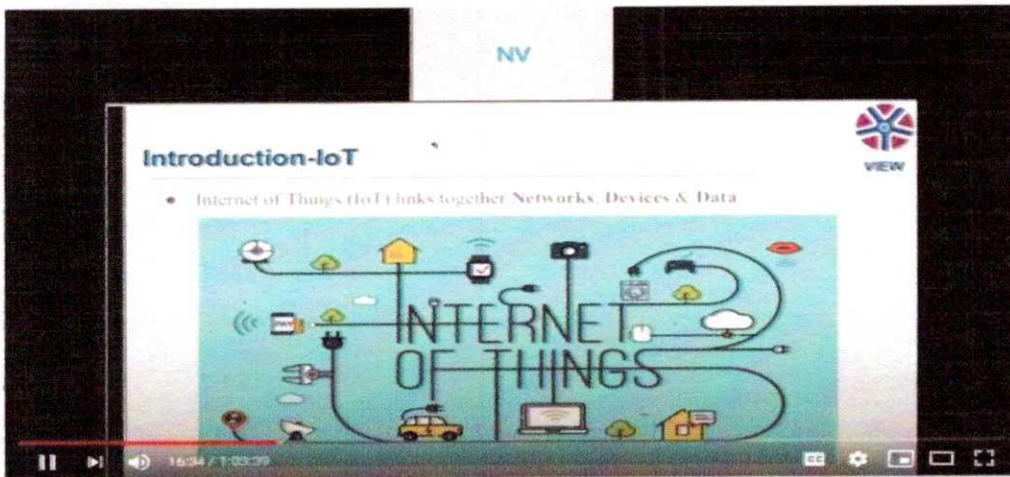

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Workshop on Andriod Botics



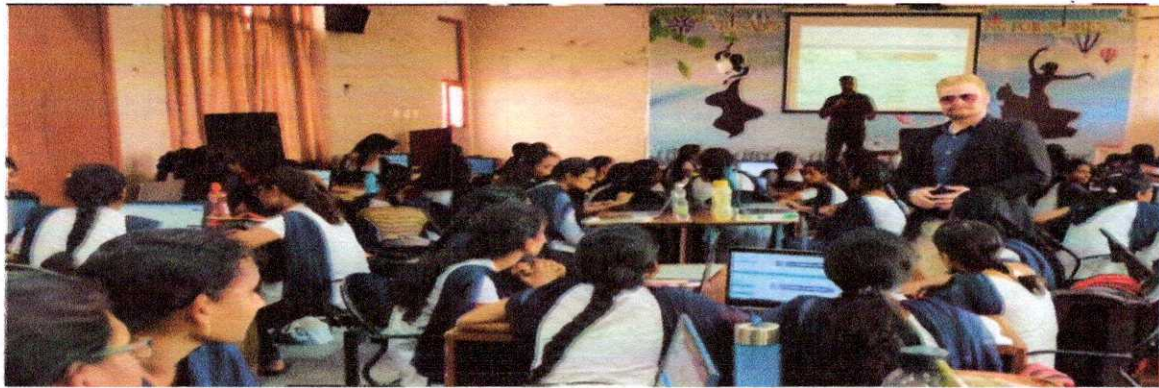
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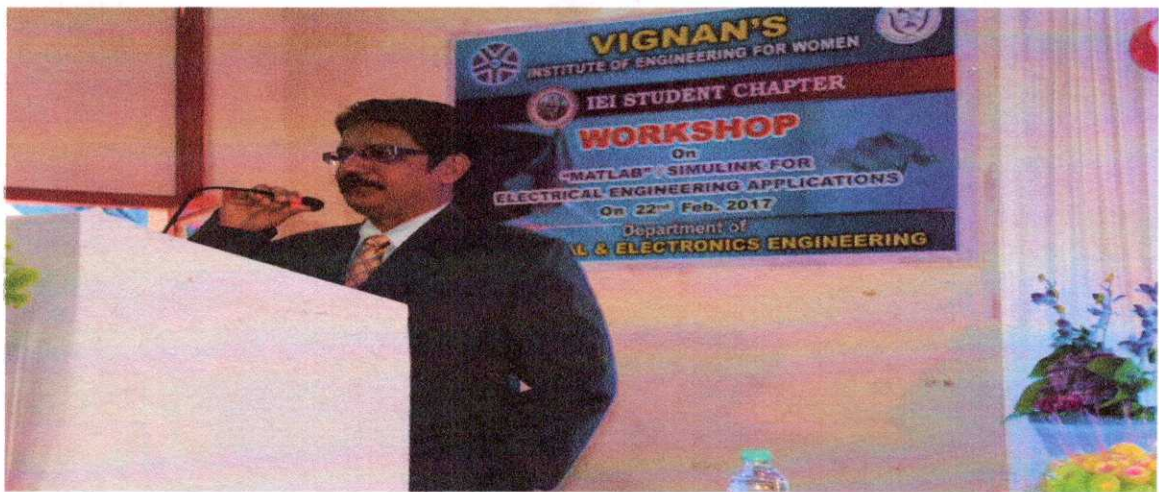
On-line workshop on Embedded & IoT Applications using Software Simulation Tools



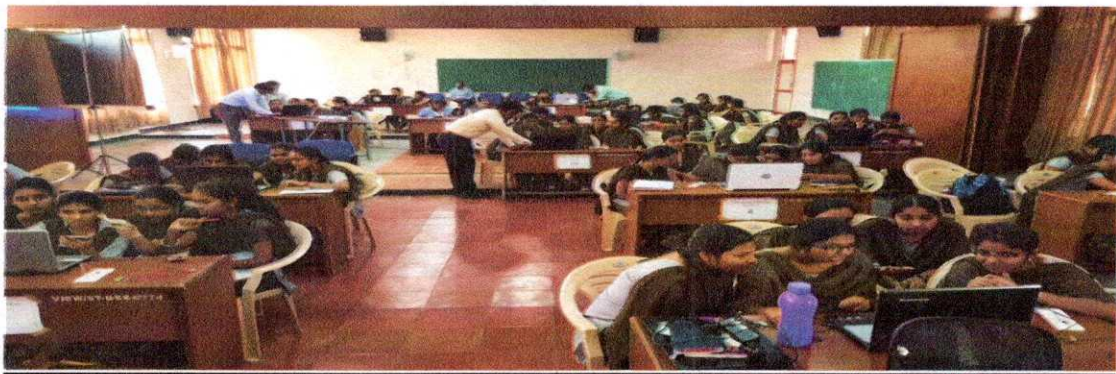
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Workshop on Cyber Security & Ethical Hacking



Workshop on MATLAB SIMULINK for Electrical Engineering Applications



Workshop on IoT using MSP 430



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