



ADDON COURSES (2018-19) –Brochures

S.No	Name of the Addon Course	Page No.
1.	Fundamentals on Arduino interfacing home Appliances	3-4
2.	Internet of Things (IoT) using Raspberry Pi	5-6
3.	Basic Python Programming	7-8
4.	SMPS for home appliances	9-10
5.	IoT applications with Arduino	11-12
6.	EV Technology	13-14
7.	Hands on Experience in Welding (Foundation Level)	15-16
8.	Design and development of Equal channel angular pressing set up.	17-18
9.	Fabrication and Characterization of Composite Material	19-20
10.	PCB Design & testing	21-22
11.	Computational thinking and problem solving skills using C	23-24
12.	Principles of Electronics	25-26
13.	Introduction to Arduinio for IoT Applications	27-28
14.	Fundamentals of ARM926 processor and its applications	29-30
15.	Embedded system design	31-32
16.	IoT application development using AVR studio	33-34
17.	Multi Resolution Techniques	35-36
18.	IC Technology	37-38
19.	Hardware Security	39-40
20.	Linux Programming & Scripting	41-42
21.	R Programming Fundamentals	43-44
22.	Advanced Databases	45-46

23.	Problem Solving and Programming in Python	47-48
24.	AWS Technical Essentials	49-50
25.	Deep Learning	51-52
26.	Image Processing & Applications	53-54
27.	Machine Learning Applications	55-56
28.	Website Development using Angular	57-58
29.	Game Development & Game Designing	59-60
30.	Ethical Hacking and Cyber Security	61-62
31.	Stress Management	63-64
32.	The Fundamentals of Computers	65-66
33.	Underground Electricity	67-68
34.	Basics of Electrical Circuits	69-70
35.	Nano Materials	71-72
36.	A Basic Structure of Computers	73-74
37.	PC Hardware and Software	75-76
38.	Wage work for Women Citizens	77-78
39.	Introduction to MS Office	79-80
40.	Personality Development	81-82
41.	Softskill & Communication Skills	83-84
42.	Indian Culture and Heritage	85-86

Course Outcomes

- ▶ Able to understand about Arduino Programming.
- ▶ Able to apply various coding techniques of Arduino Programming for different Sensors

Course Content

- Introduction to Arduino, Hardware Overview, Arduino IDE and Sketch Overview, Understanding Arduino Syntax Coding.
- Various Basic Industrial Sensors-IR- Analog Sensor, Light Sensor, Basic working Technique of Sensor, A
- Blink an LED Without using the delay () Function, Challenge Discussion.
- Analog I/O and Serial Communications, Strings and Text Files
- Fundamentals of Computational Device, Transistor, Logic Gates
- Basic LED interfacing and coding, LED, RGB interfacing and coding
- Running LEDs, Sand Glass Filling of LEDs, Sensor Interfacing, Seven Segment Display.

Resource Person

Name of the Resource Person: Mr. M. Suyog, Aakar, IIT, Mumbai

Program Venue: Electrical Simulation lab (B-04)

Co-ordinator

For Registration: Mr. K. Vamsi
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9246473210

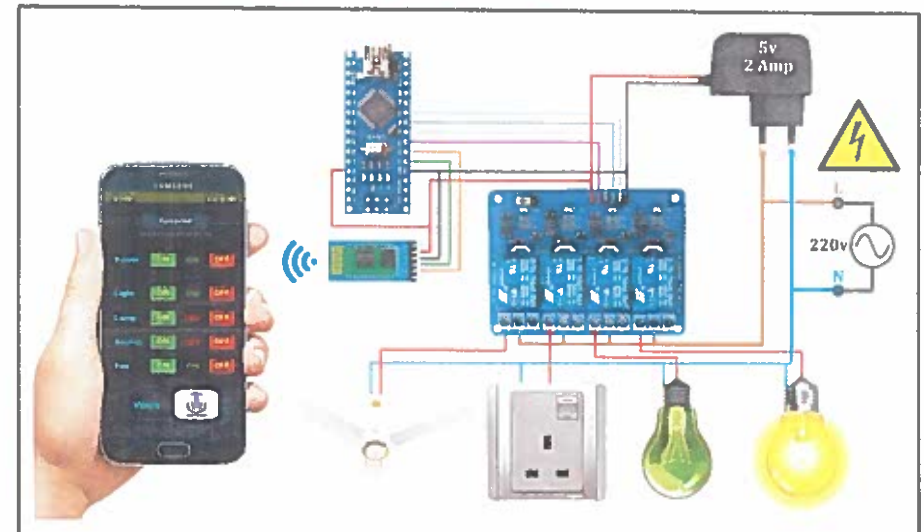
3200
PRINCIPAL
Vignani's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Add on Course
on

Fundamentals on Arduino Interfacing home Appliances

10th Dec 2018 to 17th Dec 2018

Duration of the Course : 36 hrs



Organized
by

Department of Electrical and Electronics Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Approved by AICTE & Affiliated to JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution

Kapujaggarajupeta, Visakhapatnam-530 049.

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNU examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Engineering for Women has been active in teaching and research since its inception 2008. The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post-graduate course in Power and Industrial Drives. Annual intake of this Department is 120 students. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. The Department has rich experienced and dedicated faculty from reputed institutes. Faculty are encouraged to take independent initiatives with collective responsibility in all the relevant academic and R&D dimension like innovative teaching, student projects and research supervision, continuous education through organizing conferences, symposia etc.

Faculty addresses emotional and psychological needs of the students through strong counselling system.

Vision

To be a center of excellence for producing proficient and socially responsible women electrical engineers for industry outreach through quality education and research.

Mission

- M1: To empower the students with skills in current trends through effective teaching-learning process for professional growth.
- M2: To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction.
- M3: To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

Course Description and Objectives

Arduino senses the environment by receiving inputs from add-on devices such as sensors, and can control the world around it by adjusting lights, motors, and other actuators.

- To explain about the overview of Arduino Programming.
- To describe the fundamental coding of Sensors.

Course Outcomes

Upon completion of the course, the student will be able to achieve the following outcomes

- ◆ Able to understand about IoT fundamentals.
- ◆ Able to apply various techniques on Raspberry Pi.

Course Content

- ◆ Understanding IoT fundamentals, IOT Architecture and protocols, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies.
- ◆ Definition of an embedded system in terms of its interface, Components of an embedded system, Hardware and software components in IoT devices.
- ◆ Overview of Sensors working, Analog and Digital Sensors, Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino.
- ◆ Introduction to Raspberry Pi, Understanding SoC architecture and SoCs used in Raspberry Pi, On-board components of Raspberry Pi and their functions.
- ◆ Concept of users and the login process, Viewing and modifying the file system.
- ◆ Installation of LAMP Web Server on Raspberry Pi.
- ◆ MQTT Protocol, Controlling the hardware through a Web Page creating custom web pages using HTML

Resource Person

Name of the Resource Person : **Dr. S. Srinivas,**
Professor, GITAM (Deemed to be University)

Program Venue: Electrical Simulation lab (B-04)

Co-ordinator

For Registration: **Mr. G. Ravi Kumar**
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9246473210

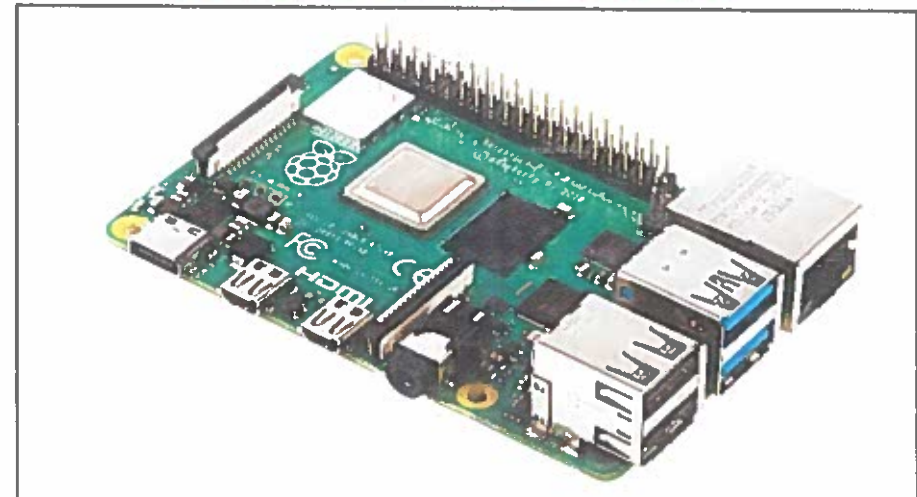
329
PRINCIPAL
Vignans Institute of
Engineering for Women
Peta, VSEZ (P.O.),
Visakhapatnam-49

Value Added Course on

Internet of Things (IoT) using Raspberry Pi

10th December 2018 to 17th December 2018

Duration of the Course : 36 hrs



Organized
by

Department of Electrical and Electronics Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Approved by AICTE & Affiliated to JNTUK)
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, Visakhapatnam-530 049.

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNU examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

3200
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.V. Peta, VSEZ (P.O.),
Vijayabandhnam-49

About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Engineering for Women has been active in teaching and research since its inception 2008. The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post-graduate course in Power and Industrial Drives. Annual intake of this Department is 120 students. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. The Department has rich experienced and dedicated faculty from reputed institutes. Faculty are encouraged to take independent initiatives with collective responsibility in all the relevant academic and R&D dimension like innovative teaching, student projects and research supervision, continuous education through organizing conferences, symposia etc.

Faculty addresses emotional and psychological needs of the students through strong counselling system.

Vision

To be a center of excellence for producing proficient and socially responsible women electrical engineers for industry outreach through quality education and research.

Mission

- M1: To empower the students with skills in current trends through effective teaching-learning process for professional growth.
- M2: To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction.
- M3: To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

Course Description and Objectives

➤ This course elucidates concepts related to Internet of Things. IOT provides features like monitoring, analysis, prediction and control. But as it is known, IOT is a concept that can only be put in application when it is connected to suitable and viable devices called 'Things' and Internet Gateway (IG). Raspberry Pi with sensors connected to it, does provide the Things with the IG. Raspberry Pi can be used as a platform to develop many Internet of Things project. It is simple to use Raspberry Pi because it uses Linux OS in a small card.

- To explain about the overview of Understanding IoT fundamentals.
- To describe the Introduction to Raspberry Pi.

Course Outcomes

- ▶ Problem solving and Programming capability .
- ▶ Implement object-oriented concepts.
- ▶ Implement database and GUI applications.

Course Content

- Introduction to Python, Working with Data, Data Types and Variables.
- Python functions, Boolean expressions, selection structure.
- Define and use functions and modules, working with recursion, Basic skills for working with list.
- An introduction to file I/O, use text files, use CSV files, use binary files.
- Object Oriented Programming.
- override object methods, Illustrative programs, Exercises.
- An introduction to relational databases, SQL statements for data manipulation.
- Using Python to work with a database, Creating a GUI that handles an event, working with components, Illustrative programs, Exercises.

Resource Person

Name of the Resource Person: Mrs. P. Vijaya Bharathi
Assistant Professor
VIEW

Program Venue: Computer Lab (B-15)

Co-ordinator

For Registration:

Ms. V. V. Sai Santoshi
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9177416155 Email id: santo.appi@gmail.com

VIEW
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Value Added Course
on

Basic PYTHON Programming

17th Sep. 2018 to 24th Sep. 2018

Duration of the Course : 42 hrs



Organized
by

Department of Electrical and Electronics Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA VSEZ (POST) VISAKHAPATNAM 530049
E-mail: viewvizag@yahoo.com, website: vlgnanvlow.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNU examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Engineering for Women has been active in teaching and research since its inception 2008. The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post-graduate course in Power and Industrial Drives. Annual intake of this Department is 120 students. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. The Department has rich experienced and dedicated faculty from reputed institutes. Faculty are encouraged to take independent initiatives with collective responsibility in all the relevant academic and R&D dimension like innovative teaching, student projects and research supervision, continuous education through organizing conferences, symposia etc.

Faculty addresses emotional and psychological needs of the students through strong counselling system.

Vision

To be a center of excellence for producing proficient and socially responsible women electrical engineers for industry outreach through quality education and research.

Mission

- M1: To empower the students with skills in current trends through effective teaching- learning process for professional growth.
- M2: To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction.
- M3: To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

Course Description and Objectives

- ◆ To acquire programming skills in core Python.
- ◆ To develop the skill of designing Graphical user Interfaces in Python.
- ◆ To develop the ability to write database applications in Python

Course Outcomes

Upon completion of the course, the student will be able to achieve the following outcomes:

- Understand what a switched-mode converter is and its basic operating principles and modeling of SMPS
- Be able to solve for the steady-state voltages and currents of step-down, step-up, inverting, and other power converters
- Design an Average equivalent circuit model and Solve for the Converter efficiency

Course Content

- Switched mode power conversion – Overview
- Non-isolated converters
- Isolated converters
- Modeling of converters
- Controller basics
- Controller design Principles
- Modeling of PID Controller

3200
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Resource person

Name of the Resource Person: Dr. Akanksha Mishra,
Associate professor, Dept. of EEE,
VIEW college

Program Venue: Power Electronics lab (B-05)

Co-ordinator

For Registration:

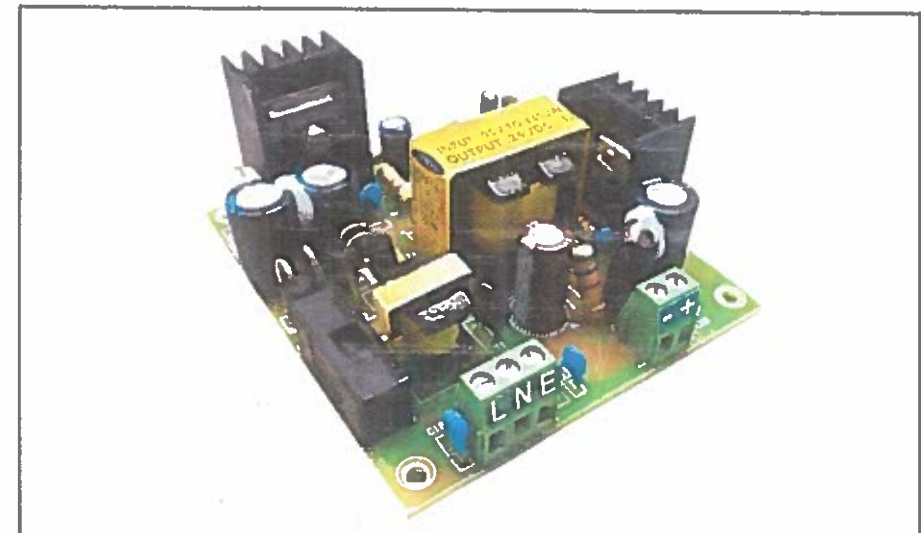
Mr. K. V. Sri Ram Prasad
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9246473210

Add-on Course on

SMPS for home appliances

17th Sep 2018 to 24th Sep 2018

Duration of the Course : 42 hrs



Organized
by

Department of Electrical and Electronics Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Approved by AICTE & Affiliated to JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution

Kapujaggarajupeta, Visakhapatnam-530 049.

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNU examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Engineering for Women has been active in teaching and research since its inception 2008. The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post-graduate course in Power and Industrial Drives. Annual intake of this Department is 120 students. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. The Department has rich experienced and dedicated faculty from reputed institutes. Faculty are encouraged to take independent initiatives with collective responsibility in all the relevant academic and R&D dimension like innovative teaching, student projects and research supervision, continuous education through organizing conferences, symposia etc.

Faculty addresses emotional and psychological needs of the students through strong counselling system.

Vision

To be a center of excellence for producing proficient and socially responsible women electrical engineers for industry outreach through quality education and research.

Mission

- M1: To empower the students with skills in current trends through effective teaching- learning process for professional growth.
- M2: To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction.
- M3: To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

Course Description and Objectives

- This course introduces the basic concepts of switched-mode converter circuits for controlling and converting electrical power with high efficiency.
- Principles of converter circuit analysis are introduced, and are developed for finding the steady state voltages, current, and efficiency of power converters.

Course Outcomes

Upon completion of the course, the student will be able to achieve the following outcomes:

- ❖ Able to choose the right hardware, software and protocols for the proposed application.
- ❖ Able to learn the fundamentals of this emerging technology.

Course Content

- ▶ Introduction to IOT
- ▶ Arduino Simulation Environment
- ▶ Sensor & Actuators with Arduino
- ▶ Basic Networking with ESP8266 Wi-Fi module
- ▶ IoT Protocols
- ▶ Cloud Platforms for IOT
- ▶ Arduino and Interfacing with Components

Resource Person

Name of the Resource Person: **Dr.R.V.S.S Lakshmi Kumari**,
Assoc. Prof., Dept. of EEE,
GVPW

Program Venue: Simulation lab (B-04)

Co-ordinator

For Registration:

Mr. K. Vamsi
Assistant Professor
Department of Electrical and Electronics Engineering

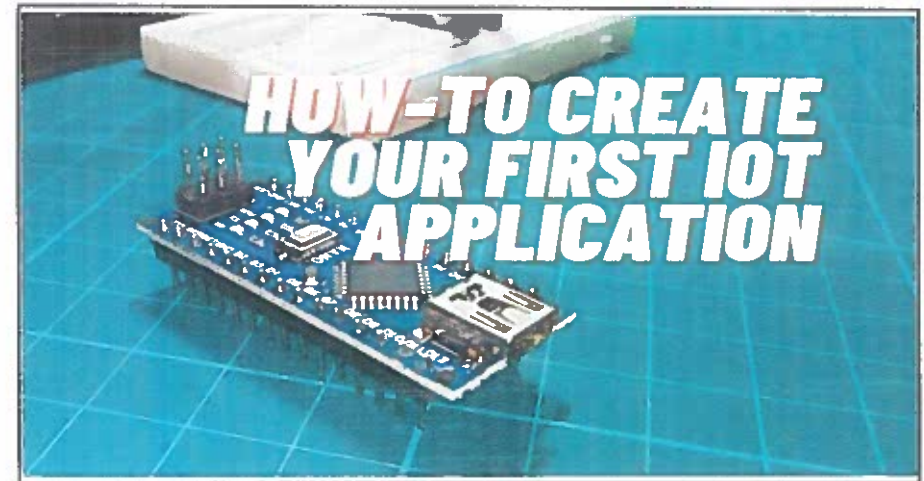
3800
PRINCIPAL
Vignans Institute of Women
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Add-on Course on

IoT applications with Arduino

04th Sep 2018 to 12th Sep 2018

Duration of the Course : 42 hrs



Organized
by

Department of Electrical and Electronics Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Approved by AICTE & Affiliated to JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, Visakhapatnam-530 049.

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNU examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K. J. Peta, VSEZ (P.O.),
Vishakhapatnam-49

About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Engineering for Women has been active in teaching and research since its inception 2008. The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post-graduate course in Power and Industrial Drives. Annual intake of this Department is 120 students. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. The Department has rich experienced and dedicated faculty from reputed institutes. Faculty are encouraged to take independent initiatives with collective responsibility in all the relevant academic and R&D dimension like innovative teaching, student projects and research supervision, continuous education through organizing conferences, symposia etc.

Faculty addresses emotional and psychological needs of the students through strong counselling system.

Vision

To be a center of excellence for producing proficient and socially responsible women electrical engineers for industry outreach through quality education and research.

Mission

- M1: To empower the students with skills in current trends through effective teaching-learning process for professional growth.
- M2: To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction.
- M3: To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

Course Description and Objectives

- This course elucidates concepts related to Internet of Things. IOT provides features like monitoring, analysis, prediction and control. But as it is known, IOT is a concept that can only be put in application when it is connected to suitable and viable devices called 'Things' and Internet Gateway (IG). Raspberry Pi with sensors connected to it, does provide the Things with the IG.
 1. To understand the recent application domains of IoT in everyday life
 2. To design and build an actual IoT system.

Course Outcomes

Upon completion of the course, the student will be able to achieve the following outcomes:

- Able to Understand the architecture of E-Vehicle
- Able to know Specific Source for E-Vehicle
- Able to convert topology for E-Vehicle
- Able to Understand the Simulink model environment of E-Vehicle
- Able to know the hardware proto type model

Course Content

- Introduction to the electric vehicle
- Introduction to sources of electric vehicle
- Introduction to latest technology in battery
- Introduction to electric motor
- Simulation model of implementation with controllers
- Real time proto type model design

Resource person

Name of the Resource Person: **Mr. M. Suyog**, Asst. Prof.,
IIT Bombay

Program Venue: Simulation lab (B-04)

Co-ordinator

For Registration: **Mr. A. Chandhraiah**,
Assistant professor,
Dept of EEE, VIEW College
Mobile : 9393990143

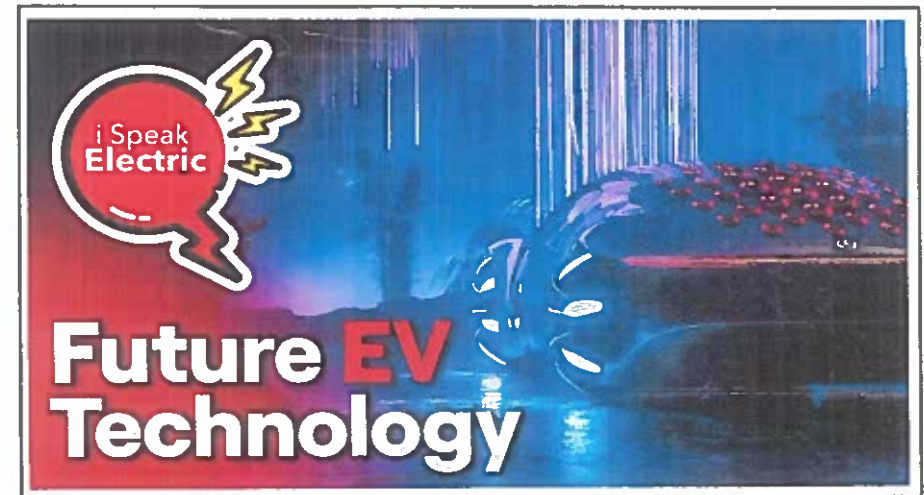
300
PRINCIPAL:
Vignam's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Value Added Course
on

EV Technology

04th Sep 2018 to 12th Sep 2018

Duration of the Course : 42 hrs



Organized
by

Department of Electrical and Electronics Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(Approved by AICTE & Affiliated to JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution

Kapujaggarajupeta, Visakhapatnam-530 049.

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNU examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

3200
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Somaiya Institute of
Management
Visakhapatnam-49

About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Engineering for Women has been active in teaching and research since its inception 2008. The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post-graduate course in Power and Industrial Drives. Annual intake of this Department is 120 students. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. The Department has rich experienced and dedicated faculty from reputed institutes. Faculty are encouraged to take independent initiatives with collective responsibility in all the relevant academic and R&D dimension like innovative teaching, student projects and research supervision, continuous education through organizing conferences, symposia etc.

Faculty addresses emotional and psychological needs of the students through strong counselling system.

Vision

To be a center of excellence for producing proficient and socially responsible women electrical engineers for industry outreach through quality education and research.

Mission

- M1: To empower the students with skills in current trends through effective teaching-learning process for professional growth.
- M2: To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction.
- M3: To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

Course Description and Objectives

- To develop the practical knowledge and skill on Motor, Controller, Battery Pack Design, BMS, Charger equipment's and Charging Station.
- To discuss various Industrial scenarios and business opportunities and analyze various electric drives suitable for hybrid electric vehicles.

Course Outcomes

1. Able to understand the various processes involved in welding.
2. Able to selecting appropriate trade-related equipment for the job.

Course Content

- ▶ Worksite Safety and Orientation
- ▶ Oxy Fuel Welding and Cutting
- ▶ Basic Shielded Metal Arc Welding
- ▶ Basic Gas Metal Arc Welding
- ▶ Air Arc and Plasma Arc Cutting
- ▶ Advanced Shielded Metal Arc Welding

Resource person

Name of the Resource Person: Mr. A. Srinivasula,
Assistant Professor, JNTUK-JUCEV

Program Venue: Mechanical Lab

Co-ordinator

For Registration: Mrs. B. Swathi
Assistant Professor
Department of mechanical Engineering
Mobile: 9866933008 Email Id: swathibusala26@gmail.com

Add-on Course
on

Hands on Experience in Welding (Foundation Level)

20th Aug 2018 to 25th Aug 2018

Duration of the Course : 36 hrs



Organized
by

Department of Mechanical Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION

KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Mechanical Engineering has been established in the year 2010 with an intake of 60 students, and 120 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Mechanical Engineering and a 2-year Postgraduate programme M.Tech. in CAD/CAM.

The main objective is to prepare the students to be successful in Mechanical Engineering to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

To evolve as a centre of excellence by adopting innovative methods for teaching, learning and industry outreach services in the diversified fields of Mechanical Engineering.

Mission

- M1: Import quality education and reliable training to nurture globally competitive mechanical engineers.
- M2: Provide vital state-of-the-art research facilities to create, interpret, apply and disseminate knowledge & skills.
- M3: Develop linkage with organizations for in plant trainings for excellence in teaching, research and consultancy services.
- M4: To empower the students with technical knowledge in Mechanical Engineering for pursuing higher education for becoming entrepreneurs/employees of prominent companies and also motivating them towards research to meet the societal needs

Course Description and Objectives

The training is designed as a combination of hands-on welding experience and classroom theory. Our welding courses account for many individual skill levels and are a great way to learn to weld for all levels of welding experience. Welding training students may progress to professional welders or use welding as part of their hobby.

1. Identifying and selecting the appropriate electrode, polarity, amperage setting, and electrode manipulation for a specific application.
2. Describing and employing safe work practices.

Course Outcomes

1. Understand production Equal Channel Angular Pressing Process
2. Conduct Vicker's Micro Hardness Test

Course Content

- ▶ Properties of Aluminum Alloy 6061-T6
- ▶ Mechanical Properties of AA 6061-T6
- ▶ Chemical Composition of D2 Tool Steel
- ▶ Equal Channel Angular Pressing Process
- ▶ Scanning Electron Microscopy
- ▶ Vicker's Micro Hardness Test
- ▶ Hardness of ECAPed samples in Route C

Resource person

Name of the Resource Person: Mr. V. Ananda Babu,
Assistant Professor, VIEW,

Program Venue: Mechanical Labs

Co-ordinator

For Registration: Mrs. U. Ramya Sri
Assistant Professor
Department of mechanical Engineering
Mobile: 9866933008 Email Id: ramyamechanical@gmail.com

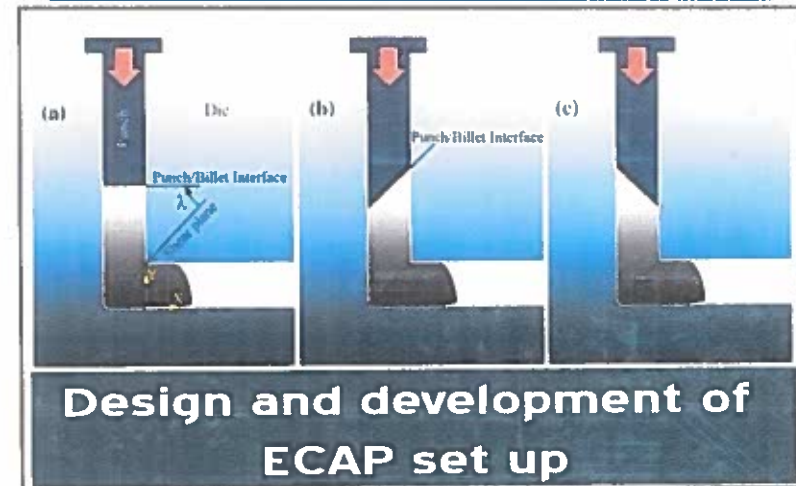
3/20
PRINCIPAL
Vignans Institute of
Engineering for Women,
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Add-on Course on

Design and development of Equal channel angular pressing set up

24th Sep 2018 to 1st Oct 2018

Duration of the Course : 42 hrs



Organized
by

Department of Mechanical Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Mechanical Engineering has been established in the year 2010 with an intake of 60 students, and 120 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Mechanical Engineering and a 2-year Postgraduate programme M.Tech. in CAD/CAM.

The main objective is to prepare the students to be successful in Mechanical Engineering to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

To evolve as a centre of excellence by adopting innovative methods for teaching, learning and industry outreach services in the diversified fields of Mechanical Engineering.

Mission

- M1: Import quality education and reliable training to nurture globally competitive mechanical engineers.
- M2: Provide vital state-of-the-art research facilities to create, interpret, apply and disseminate knowledge & skills.
- M3: Develop linkage with organizations for in plant trainings for excellence in teaching, research and consultancy services.
- M4: To empower the students with technical knowledge in Mechanical Engineering for pursuing higher education for becoming entrepreneurs/employees of prominent companies and also motivating them towards research to meet the societal needs

Course Description and Objectives

Equal-Channel Angular Pressing (ECAP) is an effective tool for producing ultra fine grained materials. repeated application of ECAP, the rotation of the sample along the longitudinal axis of the billet allows to carry out different routes of deformation. The applied route has a strong influence on the texture, microstructure and mechanical behaviour of ECAP processed metals.

1. To describe the process of Severe Plastic Deformation.
2. To explain the Equal Channel Angular Pressing.

Course Outcomes

1. Understand the various processes involved in manufacturing of composites.
2. Design a composite material based on application.

Course Content

- ▶ 1. Composite technology Characteristics of advanced composite materials
- ▶ 2. Material forms
- ▶ 3. Composite Laminate Design/Analysis
- ▶ 4. Composites Manufacturing Methods
- ▶ 5. Physical Characterization of Composites

Resource person

Name of the Resource Person:

Dr. V. V. Bhaskara Rao,
Scientist-G, NSTL,
Visakhapatnam

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Program Venue: Room No : B-25

Co-ordinator

For Registration:

Mr. Ch. Suresh
Assistant Professor

Department of mechanical Engineering

Mobile:7013754680

Email Id: chitturisuresh007@gmail.com

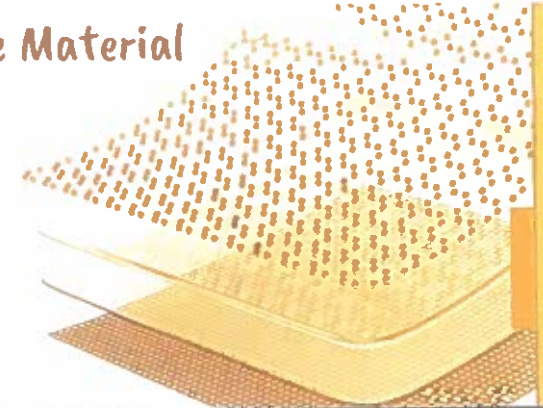
Value Added Course
on

Fabrication and Characterization of Composite Material

11th Feb 2019 to 15th Feb 2019

Duration of the Course : 35 hrs

Fabrication and Characterization of Composite Material



Organized
by

Department of Mechanical Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION

KAPUJAGGARAJUPETA, VISAKHAPATNAM- 530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

- 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.

About the Department

The Department of Mechanical Engineering has been established in the year 2010 with an intake of 60 students, and 120 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Mechanical Engineering and a 2-year Postgraduate programme M.Tech. in CAD/CAM.

The main objective is to prepare the students to be successful in Mechanical Engineering to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

To evolve as a centre of excellence by adopting innovative methods for teaching, learning and industry outreach services in the diversified fields of Mechanical Engineering.

Mission

- M1: Import quality education and reliable training to nurture globally competitive mechanical engineers.
- M2: Provide vital state –of –the-art research facilities to create, interpret, apply and disseminate knowledge & skills.
- M3: Develop linkage with organizations for in plant trainings for excellence in teaching, research and consultancy services.
- M4: To empower the students with technical knowledge in Mechanical Engineering for pursuing higher education for becoming entrepreneurs/employees of prominent companies and also motivating them towards research to meet the societal needs

Course Description and Objectives

This course is an introductory course in building foundational knowledge in 'composite materials'. It introduces the concepts of definition, characterization and classification of composites, methods of composite strengthening and manufacturing, and Mechanics and mechanical performance of composites under loading.

1. Develop and understanding of the design, processing, and behavior of composite materials.
2. Undertake a design project involving application of fiber reinforced laminates by using computer software.

Course Outcomes

Students will be able to

1. Understand the steps for PCB circuit design and fabrication
2. Develop PCB board for hardware components soldering and testing.

Course Contents

- PCB Fundamentals: PCB Advantages, Components of PCB, Electronic Components, Microprocessors and Microcontrollers, IC's, Surface Mount Devices (SMD), Classification of PCB, Single, Double, Multilayer and Flexible Boards, Manufacturing of PCB, PCB Standards.
- Schematic and Layout Design: Schematic Diagram, General, Mechanical and Electrical Design Considerations, Placing and Mounting of Components, Conductor Spacing, Routing Guidelines, Heat Sinks and Package Density, Net List, Creating Components for Library, Tracks, Pads, Vias, Power Plane, Grounding.
- Technology of PCB: Design Automation, Design Rule Checking, Exporting Drill and Gerber Files, Drills, Footprints and Libraries, Adding and Editing Pins, Copper Clad Laminates, Materials of Copper Clad Laminates, Properties of Laminates (Electrical and Physical), Types of Laminates, Soldering Techniques, Film Master Preparation, Image Transfer, Photo Printing, Screen Printing, Plating Techniques Etching Techniques, Mechanical Machining Operations, Lead Cutting and Soldering Techniques, Testing and Quality Controls.
- PCB Technology: Trends, Environmental Concerns, Industry

PRINCIPAL
Vignan's Institute of
Engineering for Women
R. D. Peta, VSEZ (P.O.),
Visakhapatnam-49.

Venue :
EDC Lab (B-32)

Applyvolt, Vijayawada.

Co-ordinator :

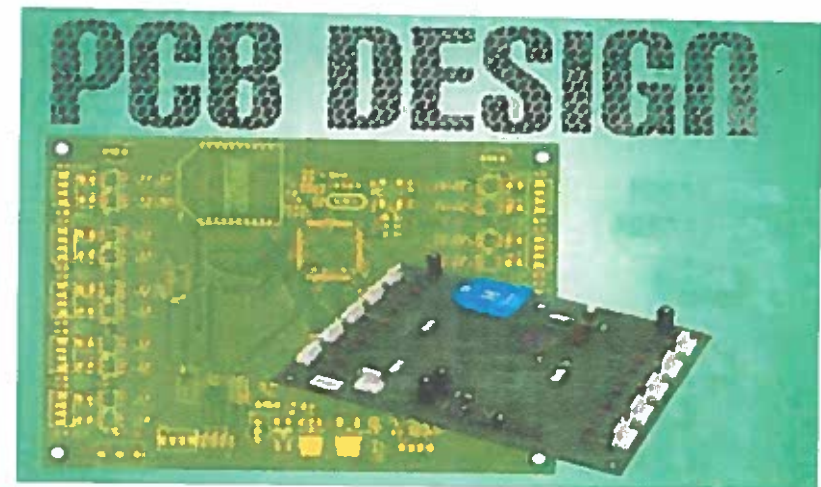
Mr. D. Tilak Raju, Assistant Professor
Department of ECE, Mobile : 9885423775
Email Id: tilakraju55@gmail.com

Add-on Course on

PCB Design and Testing

03rd December 2018 to 08th December 2018

Duration of the Course : 36 Hrs.



Organized by

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001 : 2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA, VSEZ(POST) VISAKHAPATNAM-530049
E mail : viewvizag@yahoo.com, website : vignanview.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

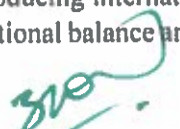
Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

To provide hand-on experience in PCB Circuit design using software and to familiarize with PCB Fabrication process. To provide hands on experience in assembly and Testing of electronics circuit.

1. To gain knowledge on interfacing sensors to Raspberry Pi.
2. To develop an application based product to solve real-world issues.

Course Outcomes

Students will be able to :

1. To interpret the basic programming in C-language.
2. To examine and rectify various errors in C-language.

Course Contents

- ❖ **Basics:** Introduction, Information and data, Data encoding, Logic: Boolean logic, Applications of propositional logic
- ❖ **Problem Solving and Algorithmic Thinking:** Problem definition, Logical reasoning, Problem decomposition, Abstraction, Flowcharting, Name binding, Selection, Repetition, Modularization. Data organization: List and Arrays. Simple algorithms, comparison of performance of algorithms.
- ❖ **Problem Solving Techniques:** Factoring and Recursion Techniques, Search and Sort techniques, Text processing and Pattern matching
- ❖ **Introduction to C:** History of C, Features of C, Structure of C Program, Character Set, C Tokens-Key words, Identifiers, Constants, Variables, Data types, Operators.
- ❖ **Statements:** Selection statements (Decision Making)- if and switch statements with examples, Repetition statements (loops)- while, for, do while statements with examples, Unconditional statements- break, continue, go to statements with examples.
- ❖ **Functions:** Designing Structured Programs, Types of Functions-User defined functions, Standard functions, Categories of functions, Parameter Passing techniques, Storage classes, Recursion.
- ❖ **Arrays:** Declaration and Initialization, One dimensional Arrays, Two dimensional Arrays
- ❖ **Strings:** Declaration and Initialization, String Input / Output functions, String manipulation functions.
- ❖ **Pointers:** Introduction, Definition and Declaration of pointers, address operator, Pointer variables, Pointers with Arrays.
- ❖ **Structures:** Introduction, Declaration and Initialization, Structures, Unions.

PRINCIPAL

Vignan's Institute of
Engineering for Women
K. J. Peta, VSEZ (P.O.),
Visakhapatnam-49.

Resource person :
Mrs. P. Vijaya Bharathi, Associate Professor,
Department of CSE,VIEW

Co-ordinator :

Mrs. Ch.Anitha Bhavani, Asst. Professor
Department of ECE, Mobile : 8978273290
Email Id: anithabhavani.ch@gmail.com

English Communication Lab
(B-37)

Add-on Course on

Computational thinking and problem solving skills using C

03rd December 2018 to 08th December 2018

Duration of the Course : 36 Hrs



Organized by

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001 2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA, VSEZ (POST) VISAKHAPATNAM-530049
E-mail: viewvlag@yahoo.com, website : vignanvlew.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.


Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- M1** : To empower women engineers through engineering 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.


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

Computational thinking is the process of approaching a problem in a systematic manner and creating and expressing a solution such that it can be carried out by a computer.. Many quantitative and data-centric problems can be solved using computational thinking and an understanding of computational thinking will give you a foundation for solving problems that have real-world, social impact.

1. To gain basic knowledge in C- programming.
2. To solve the problems involved in C-language.

Course Outcomes

Students will be able to

1. To understand the basic knowledge in electronics.
2. To examine the various electronic circuits.

Course Contents

- ❖ Network theorems: conventional and electron flow, Concept of voltage source, Concept of current source, Kirchhoff's current and voltage law, superposition theorem, reciprocity theorem, Thevenin's theorem, Norton's theorem, maximum power transfer theorem, impedance, parameters for two-port network, principle of duality, reduction of complicated circuit method T and δ form, conversion of T and δ sections To study the characteristics of various active devices.
- ❖ AC through RC, RL, RLC series and parallel circuits, resonance in series and parallel RLC circuits, graphical representation of series and parallel resonance circuits, band width and Q – factor of series RLC circuits To design the various circuits.
- ❖ Energy Bands in Solids, Electrical conductivity, Carrier Concentration and Fermi level of intrinsic Semiconductor, Donor and Acceptor, Carrier density and Fermi level in extrinsic semiconductor (Qualitative Idea). Dependence of Fermi Level on donor and acceptor concentration, Idea of carrier mobility, Drift and Diffusion current, Einstein relation
- ❖ P-N junction: barrier formation, barrier potential, transition capacitance, qualitative mechanisms of junction breakdown: avalanche breakdown and zener breakdown, Zener diode, Idea of biasing, biasing of P – N junction, current across P – N junction, diode equation, diode resistances, load line of diode circuit
- ❖ Half wave and full wave rectifier, bridge rectifiers, ripple factor, rectification efficiency, clipping and clamping circuits, basic working idea of solar cell, LED.

Venue : CEED Lab (C-35)

Resource person :

Mr. Md.Ajmal, Datapro, Visakhapatnam

Co-ordinator :

Mr. P. Sudhakar, Assistant Professor

Department of ECE, Mobile : 7780405914

Email Id:sudhaarp@view.edu.in

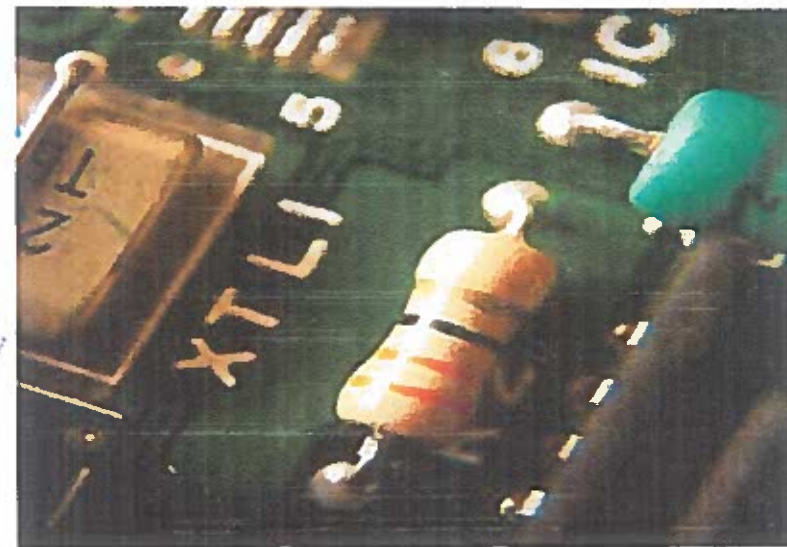
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add on Course
on

Principles of Electronics

03rd December 2018 to 08th December 2018

Duration of the Course : 36 Hrs.



Organized by

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015, ISO 14001 2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA, VSEZ (POST), VISAKHAPATNAM-530049

E-mail: viewlzag@yahoo.com, website: vignanview.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

This course provides the student with the fundamental skills to understand the basic of semiconductor and components like diode, transistor, FET, MOSFET and operational amplifier It will build mathematical and numerical background for design of electronics circuit & component value. Students equipped with the knowledge and training provided in the course will be able to participate in design , development and operation in the different area of electronics system .:

1. To gain basic knowledge in electronics.
2. To solve the problems involved in electronics.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VISEZ (P.O.),
Visakhapatnam-49.

Course Outcomes

The Students will able to :

1. To understanding the basic concepts of aurdino hardware with sensors.
2. To model various IoT application hardware using aurdino board.

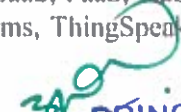
Course Contents

- ❖ **Introduction to IOT** : Understanding IoT fundamentals , IOT Architecture and protocols, Various Platforms for IoT, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies, Challenges in IOT
- 2. **Arduino Simulation Environment** : Arduino Uno Architecture, Setup the IDE, Writing Arduino Software, Arduino Libraries,Basics of Embedded C programming for Arduino, Interfacing LED, push button
- 3. **Sensor and Actuators with Arduino** : Overview of Sensors working, Analog and Digital Sensors, Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino, Interfacing of Actuators with Arduino, Interfacing of Relay Switch and Servo Motor with Arduino
- 4. **Cloud Platforms for IOT** : Virtualization concepts and Cloud Architecture, Cloud computing, benefits, Cloud services — SaaS, PaaS, IaaS, Cloud providers & offerings Study of IOT Cloud platforms, ThingSpeak API and MQTT, Interfacing ESP8266 with Web services

Venue : CEED Lab (C-35)

Resource person :
Mr. Seshu Patnaik, Electro Pro, Visakhapatnam

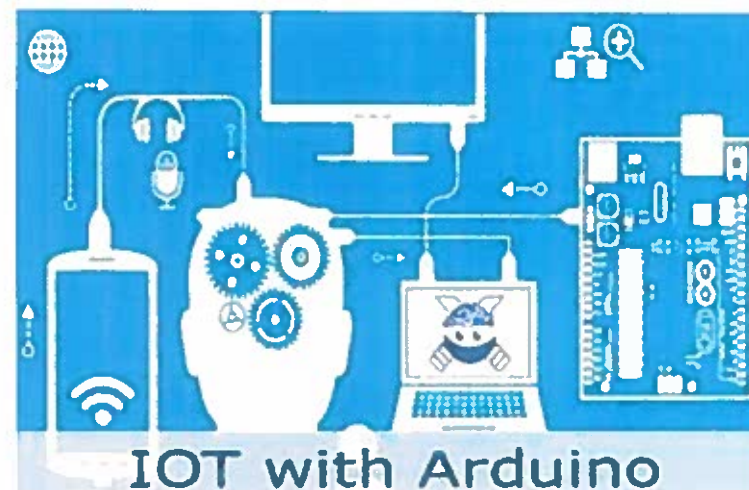
Co-ordinator :
Mr. P. Gopikrishna, Assistant Professor
Department of ECE, Mobile : 9603260132
Email Id: gopikrishnap@view.edu.in


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add-on Course on Introduction to Arduino for IoT Applications

09th July 2018 to 14th July 2018

Duration of the Course : 36 Hrs.



Organized by
Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA, VSEZ(POST), VISAKHAPATNAM 530049
E-mail: viewvzagg@yahoo.com, website : vignanview.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

Course Description & Objectives: introduce students to the internet of Things and Connected devices, This Course will Provide students with some basic skills in the Arduino Programming language and an understanding of its Application

1. To gain the knowledge about arduino board.
2. To develop the hardware projects using different sensors.

3202
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Course Outcomes

The Students will able to :

1. To understand the basic concept of ARM926 processor.
2. To compute various interfacing programming using keil software.

Course Contents

- ❖ **ARM Embedded Systems** : Introduction to Embedded Systems, The RISC Design Philosophy, The ARM Design Philosophy, Embedded System Hardware, Embedded System Software
- 2. **ARM Processor Fundamentals**: The Acron RISC Machine, The ARM programmer's model, Current Program Status Register, Exceptions, Interrupts, and the Vector Table, ARM Processor Families
- 3. **ARM Organization and Peripherals**: 3-stage pipeline ARM organization, 5-stage pipeline ARM organization, ARM instruction execution, Peripherals: GPIO, UART, I2C, SPI, ADC/DAC, Timers, Displays, Interrupts and DMA.
- 4. **Efficient C Programming for ARM** :Data types, Expressions and Conditional statements, Loops, Functions and procedures, Use of memory, Pointer Aliasing, Bit-Field
- 5. **ARM Assembly Language Programming** : Data processing instructions, Data transfer instructions, Control flow instructions, Writing simple assembly language programs

Venue : Circuit Lab (C-34)

Resource person :

Mr. T. Pradeep, Apply Volt, Vijaya

Co-ordinator :

Mrs. S. Malathi, Assistant Professor
Department of ECE, Mobile : 9032352626

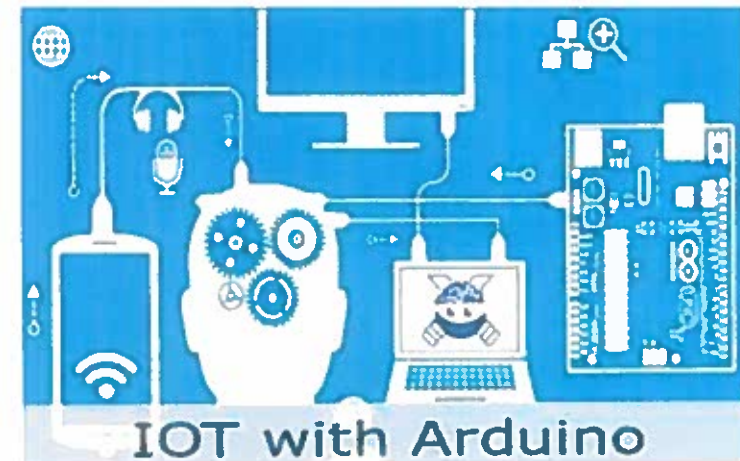
Email Id: malathibommali@gmail.com

man
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add-on Course on Fundamentals of ARM926 processor and its applications

09th July 2018 to 14th July 2018

Duration of the Course : 36 Hrs.



Organized by

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA VSEZ(POST) VISAKHAPATNAM 530049
E-mail: viewvizag@yahoo.com, website : vignanview.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.


Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- M1** : To empower women engineers through innovative learning practices.
- M2** : To encourage for higher education and research initiatives through continuous industry interaction and special skill development laboratories.
- M3** : To promote entrepreneurship through creativity and innovation.
- M4** : To promote environmental sustainability and inculcate ethical, emotional and social consciousness.


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

The Advanced RISC Machine has several microcontroller families among which ARM7 are the longest serving ARM processors. The ARM7 CPU core based microcontroller is the most popular 32-bit embedded processor which features a small microcontroller with low power consumption.. ARM architecture to almost every embedded application ranging from automotive communications protocol to medical devices and security systems

1. To gain the basic knowledge about ARM926 processor.
2. To understand basic programming with peripheral devices.

Course Outcomes

The Students will able to :

1. To understand the basic concepts of embedded systems.
2. To demonstrate various prototype applications in embedded systems.

Course Contents

- ❖ Introduction, basic architecture, operation, super-scalar and VLSHW architecture, application specific instruction set processors (ASIPS), microcontrollers, digital signal processors, selecting a microprocessor.
- ❖ Buffers and latches, Crystal, Reset circuit, Chip select logic circuit, timers and counters and watch dog timers, Universal asynchronous receiver, transmitter (UART), Pulse width modulators, LCD controllers, Keypad controllers. Design tradeoffs due to thermal considerations and Effects of EMI/ES etc.
- ❖ Challenges and issues in embedded software development, Co-design
- ❖ Real time operating systems, Kernel architecture: Hardware, Task/process control subsystem, Device drivers, File subsystem, system calls, Embedded operating systems, Task scheduling in embedded systems: task scheduler, first in first out, shortest job first, round robin, priority based scheduling, Context switch: Task synchronization: mutex, semaphore, Timers, Types of embedded operating systems, Programming languages: assembly languages, high level language..
- ❖ Embedded system development process, Determine the requirements, Design the system architecture, Choose the operating system, Choose the processor, Choose the development platform. Choose the programming language, Coding Issues, Code optimization, Efficient input/output, Testing and debugging, Verify the software on the host system, Verify the software on the embedded system. Case study of different embedded prototype applications.

Venue : MPMC Lab (C-33)

Resource person :

Mr. S. Venkatesh, Electro Pro, Visakhapatnam

Co-ordinator :

Mr. K. Sridhar, Assistant Professor
Department of ECE, Mobile : 9885683364
Email Id: sridharkovvada@gmail.com

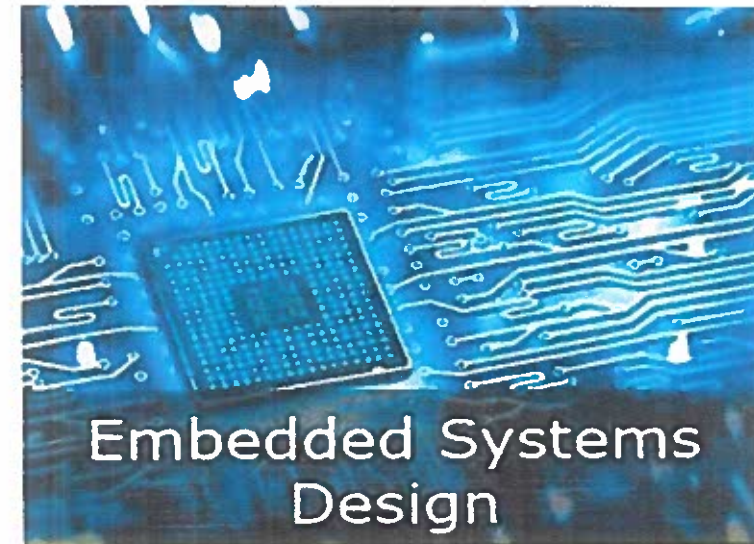
PRINCIPAL
Vignans Institute of
Engineering for Women
K. U. Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add on Course
on

Embedded system design

09th July 2018 to 14th July 2018

Duration of the Course : 36 Hrs.



Organized by

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015, ISO 14001 2015, OHSAS 18001 - 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA VSEZ (POST.) VISAKHAPATNAM 530049

E-mail : viewvizag@yahoo.com, website : vignanview.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- M1** : To empower women engineers through innovative teaching and training 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.

320
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

The objective of this course is to enable the students to understand embedded-system programming and apply that knowledge to design and develop embedded solutions. interaction with peripheral devices

1. To gain the knowledge towards basic architecture of embedded systems.
2. To design embedded hardware using different software co-design tools.

Course Outcomes

The Students will able to :

1. To interpret IoT architecture.
2. To develop various application- oriented hardware using sensors and actuators.

Course Contents

- ❖ Introduction to IoT: Architectural overview, Design principles and needed capabilities, IoT Applications, Sensing, Actuation, Basics of Networking, M2M and IoT Technology Fundamentals-Devices and gateways, Data management, Business processes in IoT, Role of cloud in IoT
- ❖ Elements of IoT:Hardware components : computing (Arduino, Raspberry Pi), communication, Sensing, Actuation, I/O interfaces Software Components- Programming APIs (Using python/Arduino) for communication protocols-MQTT, Zigbee, Bluetooth, CoAP, UDP, TCP.
- ❖ Sensing and Actuation: Definition of Sensor, Sensor features, Resolution, Classes, Different types of sensors, Actuator, Different types of Actuators, purpose of Sensors and Actuators in IoTImplemented various IoT
- ❖ IoT Application Development: Solution frame work for IoT Applications-Implementation of Device integration, Data acquisition and Integration, Device data storage on cloud/local server, Authentication, authorization of Devices
- ❖ IoT Case Studies: IoT Case studies and mini projects based on industrial Automation, Transportation, Agriculture, Healthcare, Home Automation

Venue : CEED Lab (C-35)

Resource person :

Mr. Md.Ajmal, Datapro, Visakhapatnam

Co-ordinator :

Mr. K. Rajendra Prasad, Assistant Professor

Department of ECE, Mobile : 934675130

Email Id: rajendraprasadkuriti@gmail.com

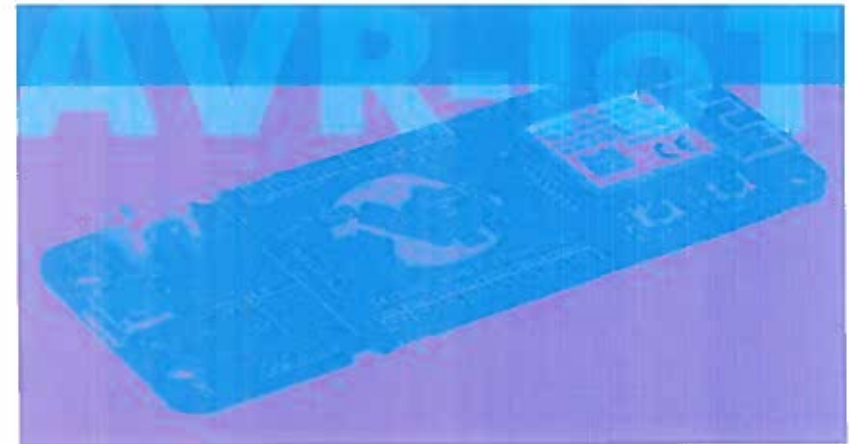
Signature
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.C.),
Visakhapatnam-49.

Add on Course on

IOT Application Development Using AVR Studio

26th December 2018 to 01st January 2019

Duration of the Course : 36 Hrs.



Organized by

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015 ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA VSEZ (POST) VISAKHAPATNAM 530049
E-mail: vlewvizag@yahoo.com, website : vignanview.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- M1** : To empower women engineers through in engineering 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.

320
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.G.)
Visakhapatnam-49.

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

The AVR Studio WG development board is a small and easily expandable demonstration and development platform for IoT solutions, based on the AVR® microcontroller architecture using Wi-Fi® technology. It was designed to demonstrate that the design of a typical IoT application

1. To gain basic knowledge on IoT architectures.
2. To implement various IoT applications using specific hardware boards.

Course Outcomes

The Students will be able to :

1. To Analyze images using wavelet transforms.
2. To Illustrate images in different resolutions.

Course Contents

- ◆ **Multiresolution:** Multiresolution Techniques span an exceptionally broad range of algorithms, models, methods, and concepts. Central to the multiresolution approach is to somehow express short-range, mid-range, and long-range relationships explicitly.
- ◆ **Wavelet Methods:** Problems in which a wavelet transform is used to decompose an image or video into multiple scales, very commonly for image/video denoising, or for feeding the coefficients at multiple scales into a classifier for image classification and segmentation.
- ◆ **Hierarchical Models:** A model in which a pixellated, finest-scale random field is explicitly represented using a set of random fields over scales. In many cases the multi-scale model may be simpler, using principles of Markov decomposition to decouple the problem into pieces. A multi-scale model allows different models to be asserted at different scales, usually simpler or more meaningful than having a single-scale model which needs to assert all of the various scale-dependent behaviours simultaneously.
- ◆ **Hierarchical Algorithms:** Even if there is no explicitly hierarchical model, it is possible for the processing algorithm to be hierarchical. Best known examples include multigrid methods, whereby a single-scale linear system is solved by casting the problem onto a hierarchy, and wavelet methods in image processing, whereby the image is transferred into a set of multiscale coefficients in the wavelet domain,

Venue : A35, Dept. of ECE

Resource person :
Dr. Puvvada Ramesh,
Rtd. Professor

Co-ordinator :

Mrs. P. Kamala, Assistant Professor
Department of ECE, Mobile : 9666249493
Email Id : kamalap@view.edu.in


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add on Course
on

Multi Resolution Techniques

26th December 2018 to 01st January 2019

Duration of the Course : 36 Hrs.



Organized by

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA VSEZ(POST), VISAKHAPATNAM-530049
E-mail: viewvizag@yahoo.com website : vignanview.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.


Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-18.

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

Multi resolution Techniques span an exceptionally broad range of algorithms, models, methods, and concepts. Central to the multi resolution approach is to somehow express short-range, mid-range, and long-range relationships explicitly.

1. To understand the image representation in Fourier & wavelet basis and frames
2. To understand the algorithm, available to solve real time image processing using pixel – level features.

Course Outcomes

The Students will able to :

1. To demonstrate a clear understanding of CMOS fabrication flow and technology scaling.
2. To discuss processes and device characteristics via simulations.

Course Contents

- **Environment and Crystal Growth for VLSI Technology Environment:** Semiconductor technology trend, Clean rooms, Wafer cleaning
Semiconductor Substrate: Phase diagram and solid solubility, Crystal structure, Crystal defects, Czochralski growth, Bridgman growth of GaAs, Float Zone growth, Wafer Preparation and specifications
- **Fabrication Processes Part 1**
Deposition: Evaporation, Sputtering and Chemical Vapor Deposition
Epitaxy: Molecular Beam Epitaxy, Vapor Phase Epitaxy, Liquid Phase Epitaxy, Evaluation of epitaxial layers
Silicon Oxidation: Thermal oxidation process, Kinetics of growth, Properties of Silicon Dioxide, Oxide Quality, high ϵ and low ϵ dielectrics
Diffusion: Nature of diffusion, Diffusion in a concentration gradient, diffusion equation, impurity behavior, diffusion systems, problems in diffusion, evaluation of diffused layers
Ion Implantation: Penetration range, ion implantation systems, process considerations, implantation damage and annealing
- **Fabrication Processes Part 2**
Etching: Wet chemical etching, dry physical etching, dry chemical etching, reactive ion etching, ion beam techniques
Lithography: Photoreactive materials, Pattern generation and mask making, pattern transfer, Electron beam, Ion beam and X-ray lithography
Device Isolation, Contacts and Metallization: Junction and oxide isolation, LOCOS, trench isolation, Schottky contacts, Ohmic contacts, Metallization and Packaging
CMOS Process Flow: N well, P-well and Twin tub
Design rules, Layout of MOS based circuits (gates and combinational logic), Buried and Butting Contact
- **Measurements, Packaging and Testing**
Semiconductor Measurements: Conductivity type, Resistivity, Hall Effect Measurements, Drift Mobility, Minority Carrier Lifetime and diffusion length

Resource person :

Mr. A. Sesa Rao, Rtd. Scientist, NSTL Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.), Visakhapatnam-49.

Co-ordinator :

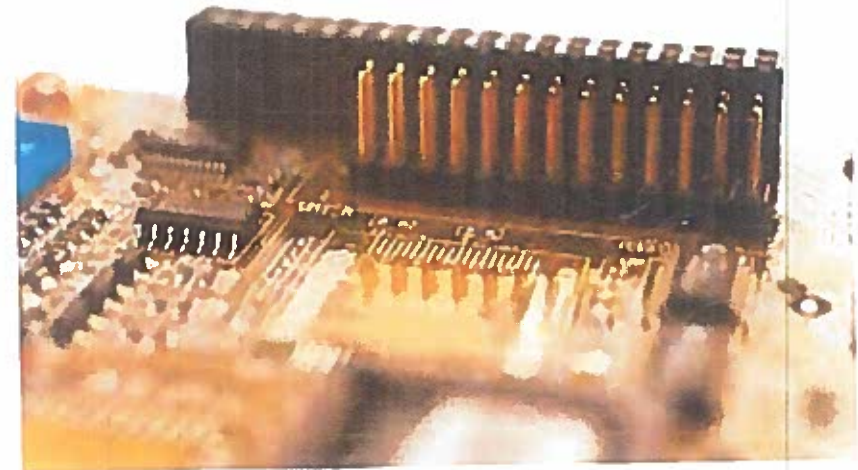
Mrs. B. Manjula, Assistant Professor
Department of ECE, Mobile : 9959006960
Email Id: manjulabammidi@gmail.com

Venue :
Dept. of ECE,
A-36

Add on Course on IC Technology

26th December 2018 to 01st January 2019

Duration of the Course : 36 Hrs.



Organized by

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA, VSEZ(POST), VISAKHAPATNAM 530049
E-mail: viewvizag@yahoo.com, website: vignanview.org

ABOUT THE COLLEGE:

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

PRINCIPAL

Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49

About the Department

Department of Electronics and communication Engineering (ECE) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. Students who are eligible students are placed on campus and many of them are placed in different MNC companies every year. The department has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, and Embedded. Faculties are actively involved in R&D activities and are working on research projects funded by agencies like DST.

Vision

To emerge as a center of excellence in the field of Electronics & Communication Engineering to produce competent women engineers with ethical values.

Mission

- M1** : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.
- M2** : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.
- M3** : To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

Explore the practical and fundamental limits to the evolution of modern MOS devices and circuit technology. Learn about advanced devices and process technology for silicon manufacturing. Gain exposure to current and future IC devices and interconnects technology. Predict future devices and materials that will enable progress in integrated electronics and guide industry innovation.

1. To explain fundamental principles involved in the fabrication of VLSI devices and circuits
2. To demonstrate the fabrication process of VLSI circuits

Course Outcomes

At the end of the course, the student will have the ability to:

- Focus on the importance of addressing different security threats on modern hardware design.
- Learn the manufacturing, installation, and operating practices.

Course Contents

- Overview of Different Issues of Hardware Security.
- Preliminaries: Algebra of Finite Fields, Basics of the Mathematical Theory of Public Key Cryptography, Basics of Digital Design on Field-programmable Gate Array (FPGA)
- Useful Hardware Security Primitives: Cryptographic Hardware and their Implementation, Optimization of Cryptographic Hardware on FPGA
- Side-channel Attacks on Cryptographic Hardware: Basic Idea, Current-measurement based Side-channel Attacks Design Techniques to Prevent Side-channel Attacks, Improved Side-channel Attack Algorithms
- Testability and Verification of Cryptographic Hardware: Fault-tolerance of Cryptographic Hardware, Fault Attacks, Verification of Finite-field Arithmetic Circuits.
- Hardware Trojans: Hardware Trojan Nomenclature and Operating Modes, Techniques to Prevent/Detect Hardware Trojans.
- Logic Testing and Side-channel Analysis based Techniques for Trojan Detection.

Resource Person

Name of the Resource Person: Dr. G. Jaya Suma,
Professor, Dept of CSE
UCEV-JNTUK

Program Venue: Network Programming Lab - BI6

Faculty Coordinator

For Registration:

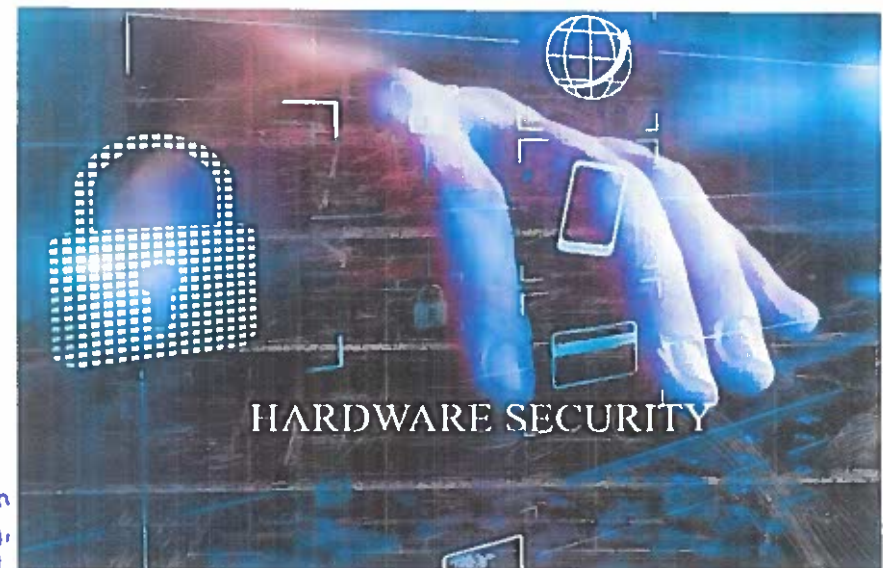
Mr. M.Sailaja
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on

Hardware Security

3rd Dec 2018 to 10th Dec 2018

Duration of the Course : 42 hrs



HARDWARE SECURITY

Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION

KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

Hardware Security will focus on the importance of addressing different security threats on modern hardware design, manufacturing, installation, and operating practices. In particular, the threats would be shown to be relevant at scales ranging from a single user to an entire nation's public infrastructure.

1. To understand the different issues of Hardware Security everyday life.
2. To prevent and detect the Hardware Attacks.

Course Outcomes

At the end of the course, the student will have the ability to.

- Create and run scripts using Perl / TCL.
- Use Linux environment and write programs for automation of scripts in VLSI tool design flow.

Course Contents

- ❑ **Linux Basics:** Introduction to Linux, File System of the Linux, General usage of Linux kernel & basic commands, Linux users and group, Permissions for file, directory and users, Searching a file & directory, zipping and unzipping concepts.
- ❑ **Linux Networking:** Introduction to Networking In Linux, Network basics & tools, File transfer protocol In Linux, Network file system, Domain Naming Services, Dynamic hosting configuration Protocol & Network Information Services.
- ❑ **Perl Scripting:** Introduction to Perl Scripting, working with Simple Values, Lists and Hashes, Loops and Decisions, Regular Expressions.
- ❑ **Files and Data In Perl Scripting,** References & Subroutines, Running and Debugging Perl, Modules, Object-Oriented Perl.
- ❑ **Tcl/Tk Scripting:** Tcl Fundamentals, String and Pattern Matching, Tcl, Data Structures, Control Flow Commands, Procedures and Scope, Eval, Working With UNIX, Reflection and Debugging.
- ❑ **Script Libraries, Tk Fundamentals,** Tk by Examples, The Pack Geometry Manager, Binding Commands to X, Events, Buttons and Menus, Simple Tk Widgets, Entry and Listbox Widgets Focus, Grabs and Dialogs.
- ❑ **Python Scripting:** Introduction to Python, Using the Python, Interpreter, More Control Flow Tools, Data Structures, Modules, Input and Output, Errors and Exceptions, Classes, Brief Tour of the Standard Library.

Resource Person

Name of the Resource Person: Dr.G.NarasimhaRaju,
Professor, Dept of CSE,
Lendi Institute of Engineering and Technology

Program Venue: Database Design Lab C-22

Faculty Coordinator

For Registration:

Ms. Y. Vineela Sravya
Assistant Professor

Department of Computer Science and Engineering

Add on Course
on

Linux Programming & Scripting

3rd Dec 2018 to 10th Dec 2018

Duration of the Course : 42 hrs



LINUX PROGRAMMING & Scripting

Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

The goal of the course is the study of scripting languages such as PERL, TCL/TK, Python and BASH. Creation of programs in the Linux environment. The study of the principles of scripting languages. The study of usage of scripting languages in IC design flow..

- The goal of the course is the study of scripting languages such as PERL, TCL/TK, Python and BASH.
- Creation of programs in the Linux environment.
- The study of the principles of scripting languages.
- The study of usage of scripting languages in IC design Flow.

Course Outcomes

- ◆ Download and install R and RStudio.
- ◆ Navigate and optimize the R integrated development environment (IDE) RStudio.
- ◆ Learn the main R data structures – vector and data frame.
- ◆ Compute basic summary statistics.

Course Contents

- ❖ The R Statistical Programming Language
- ❖ The RStudio Integrated Development Environment (IDE)
- ❖ Data importation methods
- ❖ Basic R Data Types
- ❖ Data processing and manipulation techniques
- ❖ External add-in packages for R
- ❖ Summary statistic functions
- ❖ Data visualisations using gplot
- ❖ Error types

Resource Person

Name of the Resource Person: Dr. A.S.N.Chakravarty
Assoc. Prof., Dept. of CSE,
JNTUK, UCEV.

Program Venue: Advanced Programming Lab B-15

Faculty Coordinator

For Registration:

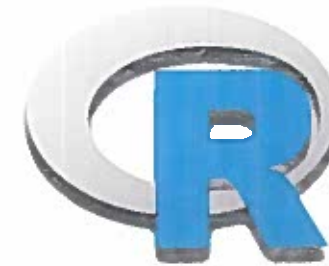
Mr. L. Bhupathi Rao
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on

R Programming Fundamentals

3rd Dec 2018 to 10th Dec 2018

Duration of the Course : 42 hrs



Programming Fundamentals

Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION

KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

Hands on Programming with R will focus on the how to use different functions in R, how to read data into R, accessing R packages, writing R functions, debugging, and organizing data using R functions. Develop applications where several processes need to communicate with each other to complete a task.

- The basics of statistical computing and data analysis.
- How to use R for analytical programming.
- How to implement data structure in R.
- R loop functions and debugging tools.

Course Outcomes

- At the end of the course, the student will have the ability to
- Identify advance database concepts and database models.
 - Produce data modeling and database development process for object-oriented DBMS.

Course Contents

- Basic concepts of query processing; converting SQL queries into Relational Algebra; Basic Algorithms for executing query operations; Query tree and query graph; Heuristic optimization of query tree
- Overview of Object-oriented database; OO Concepts; Encapsulation of Operations and methods; Inheritance; Object Model; Object definition language; Object Query Language; Object Relational Concepts
- Introduction; Distributed databases principles; architectures; design; Implementation; Fragmentation; Transparencies in Distributed Databases; Transaction control in Distributed Database; Query Processing in Distributed Database
- Web interfaces to the Web, Overview of XML; Structure of XML data, Document schema, Querying XML data.
- Storage of XML data, XML applications; The semi structured data model, Implementation issues, Indexes for text data
- Data warehousing and Data Mining; Active database; Spatial Database; Deductive database; Temporal database; Multimedia database. Big data concept , Sensor Database System.

Resource Person

Name of the Resource Person: : Dady Lalitha,
PL/SQL Developer, TCS

Program Venue: Data Base design Lab C-22

Faculty Coordinator

For Registration:

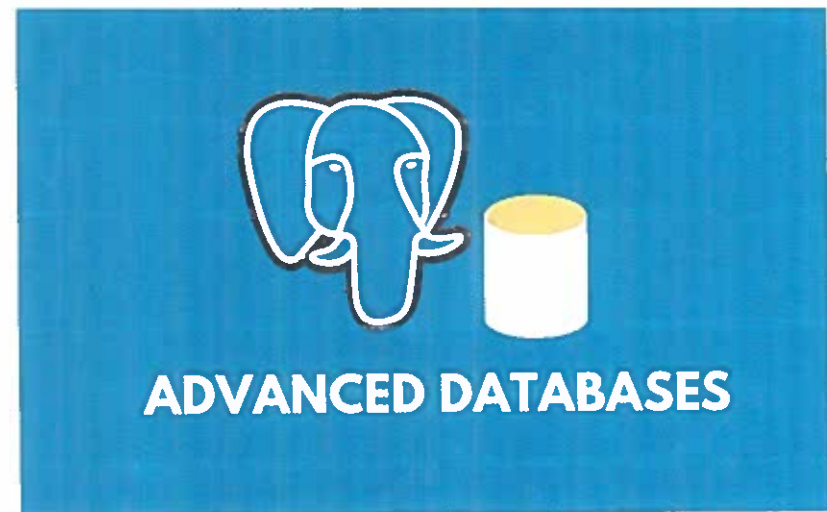
Mrs. G. Sandhya
Assistant Professor
Department of Computer Science and Engineering

Add on Course
on

Advanced Databases

25th June 2018 to 30th June 2018

Duration of the Course : 36 hrs



Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

The course presupposes a basic knowledge of conceptual modelling for data base systems and implementation using relational DBMS and SQL. The course aims to a more profound understanding of database theories, models, and methods and an ability to use these in different situations.

- To provide a strong foundation in advanced database concepts from an industry perspective.
- To covers advanced data modeling concepts like OOD Modeling and ORD Modeling
- To learn query processing and transaction management concepts for object-relational database and distributed database

Course Outcomes

At the end of the course, the student will have the ability to

- Develop algorithmic solutions to simple computational problems.
- Develop and execute simple Python programs.
- Decompose a Python program into functions

Course Content

- ❖ Python interpreter and interactive mode, debugging; values and types: int, float, Boolean, string, and list; variables, expressions, statements, tuple assignment, precedence of operators, comments; illustrative programs: exchange the values of two variables, circulate the values of n variables, distance between two points.
- ❖ Conditionals: Boolean values and operators, conditional (if), alternative (if-else), chained conditional (if-elif-else); iteration: state, while, for, break, continue, pass; fruitful functions: return values, parameters, local and global scope, function composition, recursion.
- ❖ Strings: string slices, immutability, string functions and methods, string module; Lists as arrays. Illustrative programs: square root, gcd, exponentiation, sum an array of numbers, linear search, binary search.
- ❖ Lists: list operations, list slices, list methods, list loop, mutability, aliasing, cloning lists, list parameters; Tuples: tuple assignment, tuple as return value; Dictionaries: operations and methods; advanced list processing – list comprehension; illustrative programs: simple sorting, histogram, Students marks statement, Retail bill preparation.
- ❖ Files and exception: text files, reading and writing files, format operator; command line arguments, errors and exceptions, handling exceptions, modules, packages; illustrative programs: word count, copy file, Voter's age validation, Marks range validation (0-100).

Resource Person

Name of the Resource Person: S. Gopi, K. S. Kumar, P. Sahu, *Principal*
Technical Trainers, APSSDC, *Vignan's Institute of Women*
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Program Venue: Advanced Programming Lab B-15

Co-ordinator

For Registration:

Ms. Rita Roy
Assistant Professor
Department of Computer Science and Engineering

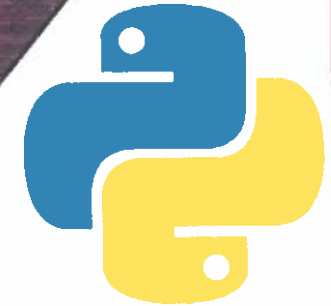
Add on Course on

Problem Solving and Programming in Python

25th June 2018 to 30th June 2018

Duration of the Course : 36 Hrs.

Problem Solving
and
Programming
in
Python



Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

This course introduces students to concepts of problem solving using constructs of logic inherent in computer programming languages. Students study the nature of problems, common solution approaches and analysis techniques. Students use a flowchart interpreter to diagram problem solutions. Students learn the basics of computer programming by learning Python 2.7. Both Python scripts and flowcharts enable students to construct solutions to common algorithmic problems.

1. To understand the basics of algorithmic problem solving.
2. To learn to solve problems using Python conditionals and loops.
3. To define Python functions and use function calls to solve problems.

Course Outcomes

- Recognize terminology and concepts as they relate to the AWS platform and navigate the AWS Management Console
- Understand the foundational services, including Amazon Elastic Compute Cloud (EC2), Amazon Virtual Private Cloud (VPC), Amazon Simple Storage Service (S3) and Amazon Elastic Block Store (EBS)

Course Contents

- Introduction to Amazon Web Services: Introduction to AWS Cloud Security in the AWS Cloud, Hosting the employee directory application in AWS
- AWS Compute: Introduction to Amazon Elastic Compute Cloud Amazon EC2 instance lifecycle, AWS container service
- AWS Networking: Introduction to Amazon Virtual Private Cloud (Amazon VPC), Amazon VPC routing, Amazon VPC security
- AWS Storage: Object storage with Amazon S3, Choose the right storage service.
- Databases: Introduction to Amazon DynamoDB, Choose the right AWS database service,
- Hands-On Lab: Implement and manage Amazon DynamoDB.

Resource Person

Name of the Resource Person: Mr. K. Ramalinga Murty,
Cloud Administrator,
Technosoft Solutions,
Visakhapatnam.

Program Venue: Basic Programming Lab B-II

Faculty Coordinator

For Registration:

Mrs. G. Pavani latha
Assistant Professor
Department of Computer Science and Engineering

3202
PRINCIPAL
Vignani's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Add - on Course
on

AWS Technical Essentials

25-Jun-2018 to 30-Jun-2018

Duration of the Course : 36 hrs



AWS Technical Essentials

Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

AWS Technical Essentials introduces you to essential AWS services and common solutions. The course covers the fundamental AWS concepts related to compute, database, storage, networking, monitoring, and security. You will start working in AWS through hands-on course experiences. The course covers the concepts necessary to increase your understanding of AWS services, so that you can make informed decisions about solutions that meet business requirements. Throughout the course, you will gain information on how to build, compare, and apply highly available, fault tolerant, scalable, and cost-effective cloud solutions.

- Describe terminology and concepts related to AWS services
- Navigate the AWS Management Console
- Articulate key concepts of AWS security measures and AWS Identity and Access Management (IAM)

Course Outcomes

At the end of the course, the student will have the ability to:

- Develop own applications using deep learning techniques effectively.
- Apply Convolutional Neural Networks in practice.
- Acquires knowledge on Image Recognition.

Course Contents

- ◆ Data Analytics Lifecycle Overview, Key Roles for a Successful Analytics Project, Background and Overview of Data Analytics Lifecycle.
- ◆ Data Preparation, Preparing the Analytic Sandbox, Performing ETL, Learning About the Data, Data Conditioning, Survey and Visualize, Common Tools for the Data Preparation Phase
- ◆ Risk and Loss in Unsupervised Learning, Expectation-Maximization (EM) Algorithm, Clustering via Mixture Models, Mixture Models, EM Algorithm for Mixture Models.
- ◆ Clustering via Vector Quantization, K-Means, Clustering via Continuous Multilextral Optimization
- ◆ Principal Component Analysis (PCA), Motivation: Principal Axes of an Ellipsoid, PCA and Singular Value Decomposition (SVD).
- ◆ Case Study: Global Innovation Network and Analysis (GINA), Discovery.
- ◆ Data Preparation, Model Planning, Model Building, Communicate Results, Operationalize.

Resource Person

Name of the Resource Person: Dr. Venkatesulu Dondeti
Professor, Department of CSE,
VFSTR,

Program Venue: : Advanced Programming Lab B-15

Faculty Coordinator

For Registration:

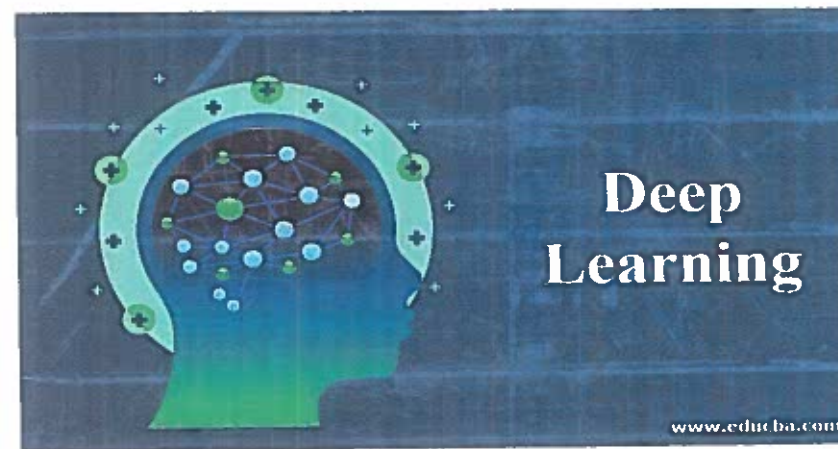
Mr. T. Hari babu
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on

Deep Learning

11th Feb 2019 to 19th Feb 2019

Duration of the Course : 35 hrs



Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

Deep learning courses focus on increasing knowledge on computer programming and machine learning. These courses help in analysing the machine learning algorithms, with the knowledge of deep learning analysing of unstructured data.

- To acquire the knowledge on Deep Learning Concepts.
- Automatic analysis and understanding of images and videos.
- Understand the intuition behind Recurrent Neural Networks.

Course Outcomes

- Develop an application in Medical Image Retrieval.
- Build an application of Image processing which can be used to recover corrupt parts.

Course Contents

- Visualization - Find objects that are not visible in the image
- Recognition - Distinguish or detect objects in the image
- Sharpening and restoration - Create an enhanced image from the original image.
- Pattern recognition - Measure the various patterns around the objects in the image
- Retrieval - Browse and search images from a large database of digital images that are similar to the original image
- Image Acquisition, Enhancement, Restoration, Wavelets and Multiresolution Processing and Segmentation.
- Video processing: It involves frame rate conversion, motion detection, reduction of noise and color space conversion etc.

Resource Person

Name of the Resource Person: Dr. Sri lakshmi Uppalapati
Assoc Professor, Dept of CSE
VFSTR

Signature
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.)
Vizianagaram

Program Venue: Basic Programming Lab B-II

Faculty Coordinator

For Registration:

Mr. P. Praveen Kumar
Assistant Professor
Department of Computer Science and Engineering

Add on Course

on

Image Processing & Applications

11th Feb 2019 to 19th Feb 2019

Duration of the Course : 35 hrs



Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

Image processing is the process of transforming an image into a digital form and performing certain operations to get some useful information from it. The image processing system usually treats all images as 2D signals when applying certain predetermined signal processing methods.

- Acquiring knowledge on Creation of an enhanced image from the original image
- To learn Image acquisition which is a preprocessing in image processing.
- To learn about Compression process which used to reduce the storage required to save an image or the bandwidth required to transmit it.

Course Outcomes

- Build and train supervised machine learning models for prediction and binary classification tasks, including linear regression and logistic regression.
- Build machine learning models in Python using popular machine learning libraries NumPy and scikit-learn.
- Skill to develop applications such as Speech Recognition, Traffic prediction.

Course Contents

- Fundamental concepts in machine learning and popular machine learning algorithms.
- Supervised learning algorithms including linear regression, logistic regression, decision trees, k-nearest neighbor.
- Various methods related to the application of machine learning algorithms.
- Logistic Regression, Support Vector Machine, Kernel function and Kernel SVM.
- Computational learning theory, PAC learning model.
- Sample complexity, VC Dimension, Ensemble learning, Applications development: Speech Recognition, Traffic prediction.
- Email Spam and Malware Filtering, Stock Market trading and Medical Diagnosis.

Resource Person

Name of the Resource Person: Mr. M. Pardha Saradhy,
CEO, Amun Technologies
Visakhapatnam

Shon
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Program Venue: Database Design Lab – C22

Faculty Coordinator

For Registration:

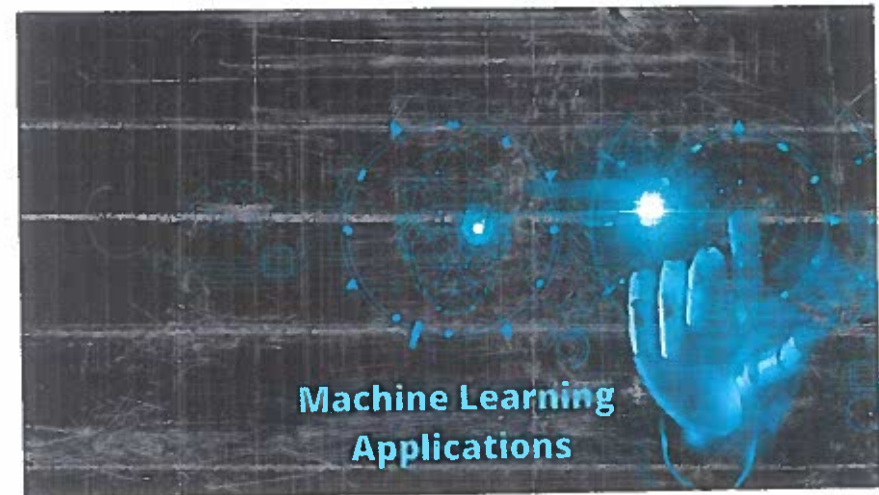
Mr. R. Ravi
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on

Machine Learning Applications

11th Feb 2019 to 19th Feb 2019

Duration of the Course : 35 hrs



Organized
by

Department of Computer Science and Engineering



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

The Department of Computer Science and Engineering has been established in the year 2008 with an intake of 90 students, and 180 students in the year 2013. It offers a 4-year Undergraduate programme B.Tech in Computer Science and Engineering and a 2-year Postgraduate programme M.Tech. in Computer Science and Engineering.

The main objective is to prepare the students to be successful in Computer Science Engineer to meet the industry needs, encourage lifelong skills and strengthen research.

Vision

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

Mission

- 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 and social consciousness in line with technological advancement.

Course Description and Objectives

Machine learning is to discover patterns in the user data and then make predictions based on these and intricate patterns for answering business questions and solving business problems. Machine learning helps in analysing the data as well as identifying trends.

- To learn Machine learning algorithms which build a model based on sample data, known as training data, in order to make predictions or decisions.
- To learn a wide variety of applications, such as in medicine, email filtering, speech recognition, and computer vision

Course Outcomes

- ▶ Use various Angular features including directives, components, and services.
- ▶ Get familiar with client-side Javascript frameworks and the Angular framework.
- ▶ Implement a functional front-end web application using Angular.

Course Content

- ▶ Introduction to Web & Angular
- ▶ AngularJS Building Blocks For Building SPA
- ▶ Modules: Module Loading and Dependencies
- ▶ Forms (Working with Select and Options)
- ▶ Filters
- ▶ Expressions and Data Binding
- ▶ Communication (\$Ajax Vs \$Http)
- ▶ AngularJS Internal

Resource person

Name of the Resource Person: Mr. GANESH NAGU DODDI
CEO | Brain O Vision

Program Venue: James Gosling Lab (C-21)

Co-ordinator

For Registration:

Mr. CH. Ramasuri A.N
Assistant Professor
Department of Information Technology
Mobile: 9491118784 Email Id: ramasuri.ch@gmail.com

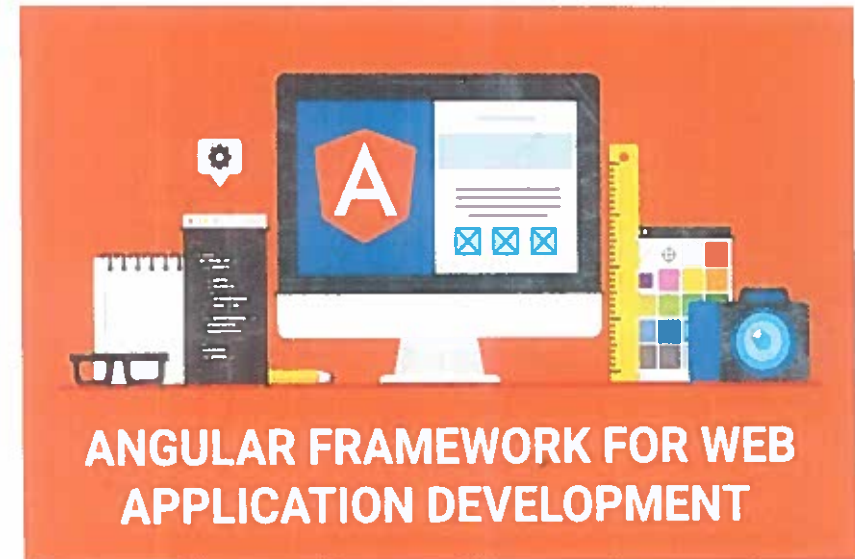
31/12/2018
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Add on Course
on

Website Development using Angular

17th to 24th December 2018

Duration of the Course : 40 hrs



Organized
by

Department of Information Technology



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

Department of Information Technology (IT) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Information Technology and allied areas. The programme is focused and designed by JNTUK to empower women students to acquire overall skills and in depth knowledge in its specialization to make significant contributions to the ever changing needs and demands of the society and IT industry. The department has state-of-the-art laboratories and classrooms equipped with ICT-enabled learning resources to facilitate and enhance students on latest technologies and skills.

Vision

To evolve into a center of excellence and produce competent women IT professionals with ethics and values towards research, higher education and entrepreneurship

Mission

- M1: To empower women engineers with latest skills and technical competency by adopting best practices.
- M2: To inspire students towards self-learning, higher education and research with ethics.
- M3: To encourage innovation, leadership, communication skills, and motivate them towards entrepreneurs.

Course Description and Objectives

In this course students learn about to empower members to create web applications that depend on the Model-View-Controller Architecture, and decline the reliance on JavaScript required to functionalize web applications.

- › To develop competences necessary for graduate students to be employed in the area of information technologies and the industry of web development.
- › To develop creativity and individuality in problem solving and performing tasks.
- › To develop Web individually and in teams.

Course Outcomes

- ▶ Apply design and development principles in the construction of two-dimensional (2D) computer and mobile games.
- ▶ Apply design and development principles in the construction of three-dimensional (3D) computer and mobile games.
- ▶ Develop software and tools for game development individually and in teams.
- ▶ Develop competences necessary for graduate students to be employed in the area of information.

Course Content

- ▶ Introduction to game design and production and 3D games
- ▶ Game Design I01, I02 and I03
- ▶ Start on Game Design I and Game Programming I03
- ▶ Start on Last major game design: 3D Models and Debugging
- ▶ Programming applications Algorithms & Trees Game design project
- ▶ Creating non-Unity C# applications Web server basics

Resource person

Name of the Resource Person: Mr. G Ravi Kishore
Trainer, APSSD

Program Venue: Dennis Ritchie Lab (C-25)

Co-ordinator

For Registration:

Mrs. S. Kalyani
Assistant Professor
Department of Information Technology
Mobile: 9491162578 Email Id: kalyaniakiri3009@gmail.com

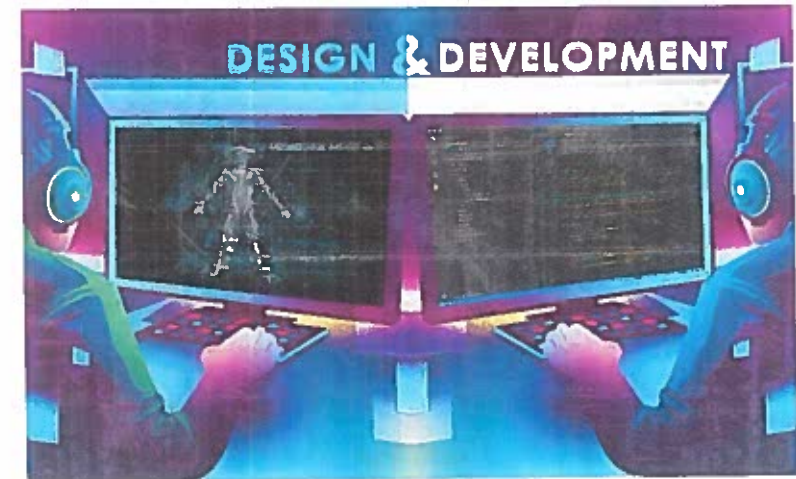
Add on Course

on

Game Development & Game Designing

07th to 12th January 2019

Duration of the Course : 32 hrs



Organized
by

Department of Information Technology



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION

KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

Department of Information Technology (IT) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Information Technology and allied areas. The programme is focused and designed by JNTUK to empower women students to acquire overall skills and in depth knowledge in its specialization to make significant contributions to the ever changing needs and demands of the society and IT industry. The department has state-of-the-art laboratories and classrooms equipped with ICT-enabled learning resources to facilitate and enhance students on latest technologies and skills.

Vision

To evolve into a center of excellence and produce competent women IT professionals with ethics and values towards research, higher education and entrepreneurship

Mission

- M1: To empower women engineers with latest skills and technical competency by adopting best practices.
- M2: To inspire students towards self-learning, higher education and research with ethics.
- M3: To encourage innovation, leadership, communication skills, and motivate them towards entrepreneurs.

Course Description and Objectives

In this course students learn the common procedures for building a level for their games. Defines a "game" and the mechanics and rules behind different types of games.

- > To develop competences necessary for graduate students to be employed in the area of information technologies and the industry of game development.
- > To develop creativity and individuality in problem solving and performing tasks.
- > To develop games individually and in teams.

Course Outcomes

- ▶ Ability to apply the tools for conducting ethical hacking.
Plan, organize and perform penetration testing on a simple network.
- ▶ Review and practice computer and network etiquette and ethics found in working environments
- ▶ Evaluate and implement new and future technologies into current system.

Course Content

- ▶ Introduction to Cyber Security & Ethical Hacking
- ▶ Skills required for Hacker & road-map of becoming the Hacker
- ▶ Different programming languages & their importance in Cyber Security
- ▶ Linux is the best operating system for hacking
- ▶ Best Linux distributions for hacking purpose
- ▶ Cyber Attack, Types of Cyber Attack and Phase of hacking

Resource person

Name of the Resource Person: Mr. Sai Satish,
CEO, Indian Servers

Program Venue: James Gosling Lab (C-21)

Co-ordinator

For Registration:

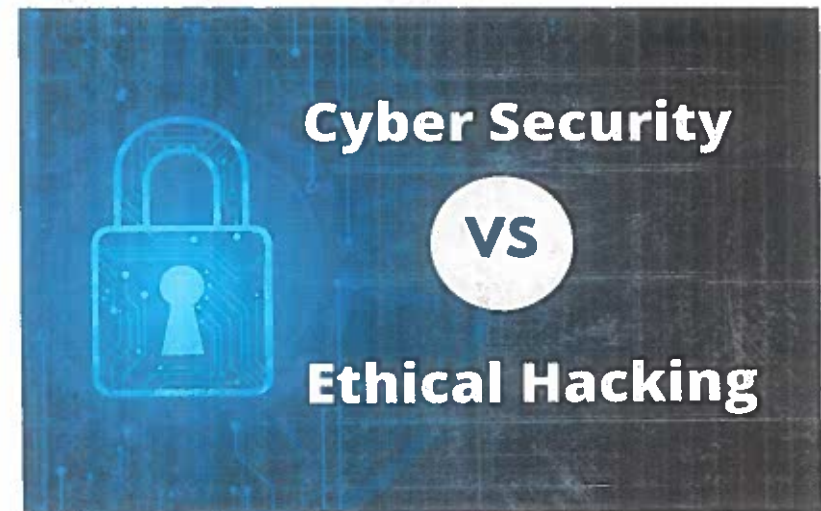
Mr. P. Mohan Ganesh
Assistant Professor
Department of Information Technology
Mobile: 9494521752 Email Id: mohanganesh23@gmail.com

Add-on Course on

Ethical Hacking and Cyber Security

02nd to 08th July 2018

Duration of the Course : 35 hrs



Organized
by

Department of Information Technology



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC & NBA.

Vision

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

Mission

- 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.

About the Department

Department of Information Technology (IT) at VIGNAN'S institute of engineering for women was established in the year 2008 for imparting state-of-the-art knowledge in Information Technology and allied areas. The programme is focused and designed by JNTUK to empower women students to acquire overall skills and in depth knowledge in its specialization to make significant contributions to the ever changing needs and demands of the society and IT industry. The department has state-of-the-art laboratories and classrooms equipped with ICT-enabled learning resources to facilitate and enhance students on latest technologies and skills.

Vision

To evolve into a center of excellence and produce competent women IT professionals with ethics and values towards research, higher education and entrepreneurship

Mission

- M1: To empower women engineers with latest skills and technical competency by adopting best practices.
- M2: To inspire students towards self-learning, higher education and research with ethics.
- M3: To encourage innovation, leadership, communication skills, and motivate them towards entrepreneurs.

Course Description and Objectives

This course aims to give an introduction to and an overview over the concepts of vulnerabilities, threats, attacks, and security measures and mechanisms in both computer systems and computer networks. Evaluate best practices in security concepts to maintain confidentiality, integrity.

Learn the difference between a vulnerability assessment and a penetration test.

Learn about the different tools and techniques that hackers—including ethical hackers—employ

Discover the elements of a four-phase penetration test and how the four phases help a successful test

Course Outcomes

1. Develop proactive responses to stressful situations.
2. Use coping tips for managing stress both on and off the job

Course Content

- ▶ Stress Management-Concepts & Approaches
Goals and Objectives of Stress Management
- ▶ Stages of Stress-Stressors, Alarm of stress,
Resistance stage, Exhaustion, Coping strategies, Normal stage.
- ▶ Stressors and stress Triggers
Prioritizing and Strategizing
- ▶ Personality and Stress
Negative Effects of Stress
- ▶ Brief Mindfulness Exercise

Resource Person

Name of the Resource Person: Dr. V. Bala, Associate Professor,
HOD, MBA-NSRIT

Program Venue: Seminar Hall

Coordinator

For Registration:

Mrs.M.Satyavathi
Assistant Professor

Department of Master of Business Administration

Mobile No:9640624614 Email ID:satyavathimanapuram1989@gmail.com

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Add on Course

on STRESS MANAGEMENT

22nd Oct 2018 to 15th Nov 2018

Duration of the Course : 40 hrs



Organized
by

Department of Master of Business Administration



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015 ISO 14001:2015 OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC.

Vision

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

Mission

- 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.

About the Department

The MBA department has been established in the year 2009 with intake of 120 students. It offers two years' post-graduation programme in Management Administration. The teaching staff are fulfill the norms of JNTU university, Kakinada and AICTE. The main objective is to prepare our students to be successful manager in Global and competitive environment..

The MBA department is keen to guide students through interactive sessions and group discussions so as to make them more confident and innovative which is the need of this global business era. Vignan's Institute of engineering for Women, is one of the premier institutions, like a prism reflecting them the manifold shades of learning and co-curricular activities. The Department strives hard towards the goal of providing innovative and quality education with high standards to achieve academic excellence.

Vision

To be a centre of excellence in Management Education.

Mission

To strive for excellence in imparting managerial knowledge and entrepreneurial skills through global pedagogy; to inculcate leadership qualities for the needs of the industry; to impart social consciousness and ethical values

Course Description and Objectives

This course aims to teach the student how to limit the harmful effects of stress while maintaining life's quality and vitality.

- 1. Understand the basic principles of stress management.
- 2. Recognize your stress triggers and how to manage them.

Course Outcomes

- Converse in basic computer terminology. Possess the knowledge of basic hardware peripherals.
- Formulate opinions about the impact of computers on society. Know and use different number systems and the basics of programming.

Course Content

- Introduction of computer
- Hardware and Software
- Parts of Computer
- Types of Computer
- Anatomy of Computer System
- Computer viruses and security
- Basic Computer Maintenance
- Working with Desktop & Windows.
- Using the system (Booting & Shutting down)
- Introduction to the Internet
- Disadvantages of using computer
- Typing and Keyboard shortcuts

PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Resource Person

Name of the Resource Person: : Mr. Ganta Anil Kumar, Programmer
Data Pro

Program Venue: C - Lab

Coordinator

For Registration: Mrs. M. Sirisha Rani
Assistant Professor

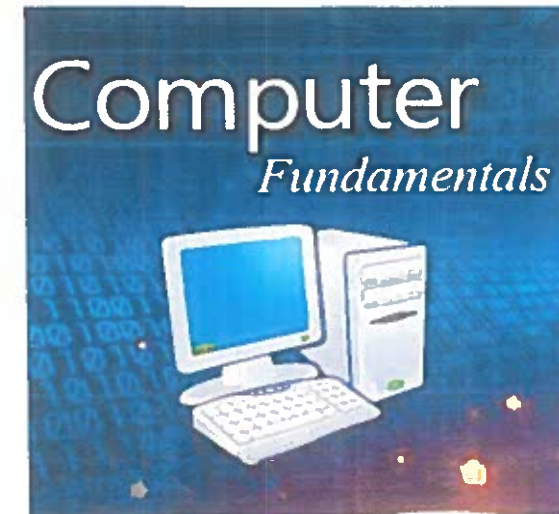
Department of Master of Business Administration
Mobile No:9640624614 Email ID:sirisharani25@gmail.com

Add-on Course
on

THE FUNDAMENTALS OF COMPUTER

22nd Jan 2019 to 23rd Feb 2019

Duration of the Course : 40 hrs



Organized
by

Department of Master of Business Administration



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNTUK)

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION

KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

Vignan's Institute of Engineering for Women (VIEW) is a pioneer educational institution established in 2008 under the Chairmanship of Dr.L.Rathaiah with an objective of imparting quality education to girl students with all facilities and infrastructure. It is located in Visakhapatnam, one of the fastest growing cities of Andhra Pradesh. The campus is housed amidst industrial atmosphere conducive for vibrant Industry – Institute Interaction. The institution, with their diverse and dynamic community of about 2300 students offering various courses in Engineering stream like EEE, MECH, ECE, CSE and IT at the Under Graduate level and MBA and M. Tech at the Post Graduate level.

Student life includes participation in sports, recreational & co-curricular activities and cultural events. In short, at VIEW students will find an academic and social environment where everyone- from faculty members to peers help shape their future. VIEW has developed into a reputed Engineering Institution with ISO 9001:2015 certifications, and has been preparing for Accreditation of NAAC.

Vision

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

Mission

- 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.

PRINCIPAL
Vignan's Institute of
Engineering for Women
K. Peta, VSEZ (P.O.),
Visakhapatnam

About the Department

The MBA department has been established in the year 2009 with intake of 120 students. It offers two years' post-graduation programme in Management Administration. The teaching staff are fulfill the norms of JNTU university, Kakinada and AICTE. The main objective is to prepare our students to be successful manager in Global and competitive environment..

The MBA department is keen to guide students through interactive sessions and group discussions so as to make them more confident and innovative which is the need of this global business era. Vignan's Institute of engineering for Women, is one of the premier institutions, like a prism reflecting them the manifold shades of learning and co-curricular activities. The Department strives hard towards the goal of providing innovative and quality education with high standards to achieve academic excellence.

Vision

To be a centre of excellence in Management Education.

Mission

To strive for excellence in imparting managerial knowledge and entrepreneurial skills through global pedagogy; to inculcate leadership qualities for the needs of the industry; to impart social consciousness and ethical values

Course Description and Objectives

To introduce the fundamentals of computing devices and reinforce computer vocabulary, particularly with respect to personal use of computer hardware and software, the Internet, networking and mobile computing. It focuses on such computer literacy that prepares students for life-long learning of computer concepts and skills. Students discovers why computers are essential components in education, business and society in this course.

- To understand basics of computer and working with OS.
- To develop working skills with productivity tools, graphics designing and Internet.
- To acquire basic programming skills.
- To apply computing in problem solving.

Outcomes

The student shall be able to

By the end of the course, the student shall be able to

1. Use MATLAB effectively to analyse and visualize data.
2. Apply numeric techniques and computer simulations to solve engineering-related problems.
3. Demonstrate understand and use of fundamental data structures.

Course Content

- ☛ To understand the basic concepts, design and estimation of distribution systems, substation
- ☛ To learn the testing of various electrical distribution schemes and equipment
- ☛ To enable candidate to design earthing system for residential and commercial
- ☛ To learn the testing of various electrical distribution equipment

Venue : A-41, VIEW

Resource Person

Mr. N. Kiran

Asst. Prof., ANITS

Course Co-ordinator

Mrs. G. Varalakshmi

Asst. Prof.,

Department of B S & H

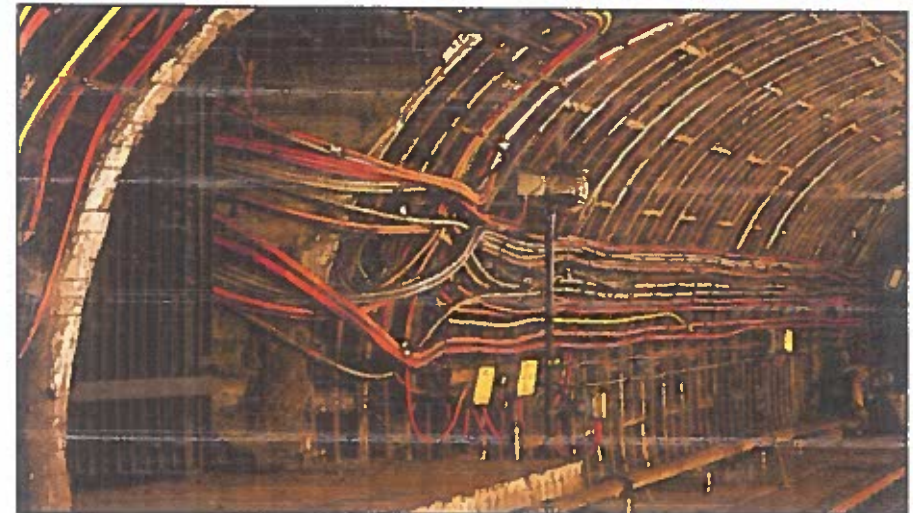
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add on Course
on

UNDERGROUND ELECTRICITY

08th Sep 2018 to 25th Sep 2018

Duration of the Course : 36 hrs



Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA, VSEZ (POST.), VISAKHAPATNAM-530049

E-mail : viewvizag@yahoo.com, website : vignanview.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have

made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

This course will introduce you to the components in underground electrical distribution systems. We'll help broaden your understanding of the entire system and employee responsibilities, including planning, design, operation, and maintenance.


Learn from an industry-leading engineer in underground (UG) utility distribution cable systems (shielded cable, terminations, separable connectors, etc) and another in UG equipment and devices (transformers, switches, fuses, etc), who both have a career's-worth of application knowledge.

This course is intended to give all attendees a well-rounded understanding of electric utility primary UG distribution systems and the associated organizational responsibilities.

Objectives :

After studying this lesson, students will be able to:

1. Describe three tools used for direct-burying URD cable.
2. Identify and describe three pieces of machinery that are used to install URD cable.
3. Describe the steps involved in installing cable in conduit between two manholes.
4. Identify the rigging devices and equipment used to install cable in conduit between two manholes.


PRINCIPAL -
Engineering Department
Vignan's Institute of Engineering For Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add on Course
on

BASICS OF ELECTRICAL CIRCUITS

08th Sep 2018 to 14th Sep 2018

Duration of the Course : 36 hrs

Course Content :

- ◆ Superposition
- ◆ Thevenin and Norton equivalent circuits
- ◆ Maximum power transfer.
- ◆ Operational Amplifiers.
- ◆ Introduction to inductance and capacitance

Venue : B-03, VIEW

Resource Person

Dr. P. Devendra


Assoc. Prof., Gayatri Women's

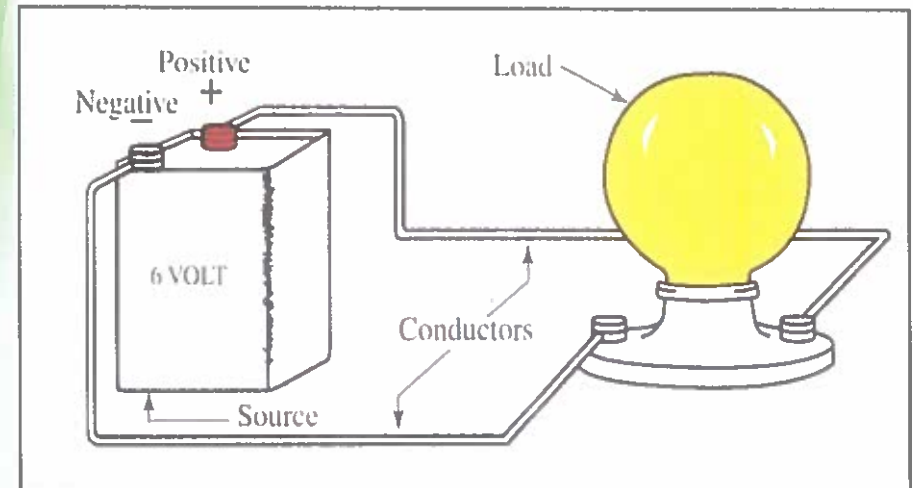
Course Co-ordinator

Mrs. Nisha Haldar

Asst Prof.,

Department of B S & H


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.



Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA, VSEZ(POST,) VISAKHAPATNAM-530049

E-mail : viewvizag@yahoo.com, website : vignanview.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have

made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

310
PRINCIPAL
Vignan's Institute of
Engineering for Women
K. J. Somayajulu VSEZ (P.O.)
Visakhapatnam-49.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

This course is an introduction to for all engineering students. It develops the basic knowledge of machines and properties and using from engineering companies.

- Provide an in-depth view of the process in electrical circuits.
- Develop knowledge on the small and bigger electrical machines.
- Improving students' understanding of the basics in electrical circuits and working principles.

Outcomes

will be able to

- To provide an introduction to the field of electrical engineering to the fundamental concepts in the sub-area of electrical circuits.
- To provide the information about circuits and required of all electrical engineering majors.
- To prepare students to take some more advanced courses in the area of circuits and electronics.

Outcomes

- Gain knowledge about the Nanomaterials, their properties, behavior, interaction and use of them over many discipline of science.
- Understand the basic behaviour of knowledge.
- Create awareness about the wide and vast field of nano science and to help students pursue their higher education and career in this field.

Course Content :

- ◆ Introduction – Types of nanomaterials, classification and synthesis
- ◆ Synthesis of Carbon Nano Tubes – Arc Discharge Method, Chemical Vapour Deposition Method, Plasma eposition.
- ◆ Characterization – SEM, TEM, BET, X – ray diffraction
- ◆ Applications: Energy source: Solar photo voltaic cell, dye sensitized and organic, Fuel cells, hybrid energy cells
- ◆ Applications: In medical field: Imaging, drug delivery, cancer therapy, tissue regeneration Automobiles, sports, textiles, cosmetics, agriculture, and domestic applications.
- ◆ Effect of nano technology on human life and environment.

Venue : A-42, VIEW

Resource Person

Dr. V. Ananda Babu

Assoc. Professor, VIEW

Course Co-ordinator

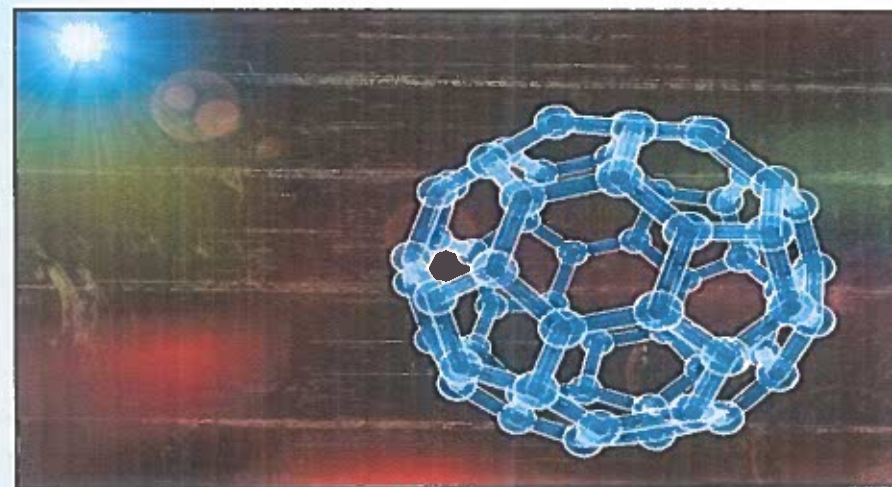
Dr. G. Muni Sarala

Asst. Professor, Department of B S & H

Add-on Course on **NANOMATERIALS**

08th Sep 2018 to 18th Sep 2018

Duration of the Course : 36 hrs



Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015 ISO 14001 2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA VSEZ(POST), VISAKHAPATNAM-530049

E-mail: viewvizag@yahoo.com, website : vignanview.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

The course should give a basic introduction to chemical and physical principles in the synthesis of nanomaterials. It includes basic principles of particle size characterization as well as fundamental physical and chemical properties of nanomaterials will be covered. The course will also cover different methods for synthesis and characterization of different nanomaterials and applications of nanomaterials in diverse fields.

Objectives

- Understand and use the properties of Nano-materials in diverse fields.
- Achieve knowledge about the Nanomaterials, their properties, behavior, interaction and use of them over many discipline of science.
- A highlight of the course is to provide virtual way of understanding the courses materials. Especially the application based approach.

3/10
PRINCIPAL >
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Outcomes

- Identify various components of computer and their interconnection.
- Identify basic components and design of the CPU: the ALU and control unit.
- Compare and select various Memory devices as per requirement and various types of IO mapping techniques.
- Critique the performance issues of cache memory and virtual memory.

Course Content :

- ◆ Structure of computers
- ◆ Computer Arithmetic
- ◆ Basic Computer Organization and Design
- ◆ Register Transfer and Micro Operations & Micro programming and control
- ◆ Memory Systems
- ◆ Input Output and Multiprocessors


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Venue : A-45, VIEW

Resource Person
Mrs. K. Madhuri
Asst. Professor, VIEW

Course Co-ordinator
Mr. K. Ramesh
Asst. Prof., Department of B S & H

Add on Course on A BASIC STRUCTURE OF COMPUTERS

07th Dec 2018 to 13th Dec 2018

Duration of the Course : 36 hrs



Organized by
DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA VSEZ (POST) VISAKHAPATNAM-530049
E-mail: viewvizag@yahoo.com website : vignanview.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have

made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

This course introduces the principles of computer organization and the basic architecture concepts. The course emphasizes performance and cost analysis, instruction set design, pipelining, memory technology, memory hierarchy, virtual memory management, and I/O systems. Basic technical writing skills are also taught in this course.

Objectives

After studying this lesson, students will be able to:

- Communicate basic concepts of computer architecture and CPU organization.
- Understanding various memory devices.
- Simplifying learning IO communication

Add-on Course
on

**PC HARDWARE AND
SOFTWARE**

07th Dec 2018 to 13th Dec 2018

Duration of the Course : 36 hrs

Course Content :

- ◆ Definition of hardware and its structure
- ◆ Processor, hard disk, memory, mainboard, ROM memory
- ◆ Input devices : Keyboard, mouse, screen ,printer and Drives.
- ◆ Software Applications
- ◆ System Software
- ◆ Benefits of Software system

Venue : B-14, VIEW

Resource Person

Dr. K. Vijaya Kumar

Assoc. Prof. VIEW

Course Co-ordinator

Mrs.K. Rasagna

Asst. Professor, Department of B S & H

Principal
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

HARDWARE AND SOFTWARE

HARDWARE **SOFTWARE**

Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015, ISO 14001: 2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA, VSEZ(POST) | VISAKHAPATNAM-530049

E-mail: viewvizag@yahoo.com, website : vignanview.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

This course provides foundational understanding of how computers process information through hardware and software. You will investigate the world of Information Technology (IT) and survey hardware components, mobile devices, operating systems, programs and apps, network fundamentals, the Internet, and touch on security and ethics.

Objectives :

By the end of this course, students should be able to;

- Describe Hardware Devices and Their Uses.
- Finding defects which may get created by the programmer while developing the software.
- Gaining confidence in and providing information about the level of quality.

Outcomes

- Identify the hardware components of a computer.
- Identify the software running on a computer.

Course Content

- Ideas of independent womanhood emerged in the age of industrialization
- the 13th, 14th, and 15th Amendments to the Constitution impacted women's political organizing and participation
- women worked to gain legal independence
- women endeavored to improve the lives of industrial workers
- The ways in which women's labor organizing efforts impacted trade unions, protective labor legislation, and regulation of capital
- How married and unmarried women conceptualized their public roles as women, mothers, daughters, and political actors in the early 20th Century

Venue : B-14, VIEW.

Resource Person

Dr. Siva Satyanarayana
Assoc. Prof. GITAM, Member JCI

Course Co-ordinator

Mrs. G Vara Lakshmi
Asst. Professor, Department of B S & H

VIEW
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add on Course
on

Wage work for Women Citizens

07nd Dec 2018 to 13th Dec 2018

Duration of the Course : 36 hrs



Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA VSEZ(POST) VISAKHAPATNAM-530049

E-mail: viewvizag@yahoo.com, website: vignanview.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies

Vision

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

Mission

- 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.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

Gender shaped women's work outside the home in the late 19th century and how gender influenced the shape of the labor force. We will explore simultaneous efforts to affirm domesticity and provide women with paths to independence during the era.

Objectives

- The lives of women in the different industry at the turn of the 20th century, and their involvement in unions, consumer's leagues, and coalitions, take center stage as we work to understand how women made efforts to improve the lives of industrial workers.

Outcomes

- What the generational and racial tensions were around strategies and arguments for women's suffrage
- How feminism arose as a word, concept and movement

370
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ
Visakhapatnam-49.

Course Content :

- ◆ **MS Word:** First released on October 25, 1983 ,Extension for Doc files is “.doc” is useful in creating text documents, Templates can be created for Professional use with the help of MS Word, Work Art, colors, images, animations can be added along with the text in the same file which is downloadable in the form of a document, Authors can use for writing/ editing their work
- ◆ **MS Excel:** Majorly used for making spreadsheets., A spreadsheet consists of grids in the form of rows and columns which is easy to manage and can be used as a replacement for paper, It is a data processing application, Large data can easily be managed and saved in tabular format using MS Excel
- ◆ **MS PowerPoint:** It was released on April 20, 1987Used to create audiovisual presentations, Each presentation is made up of various slides displaying data/information, Each slide may contain audio, video, graphics, text, bullet numbering, tables etc., Using PowerPoint, presentations can be made more interactive
- ◆ **MS Access:** It was released on November 13, 1992, It is Database Management Software (DBMS), Table, queries, forms and reports can be created on MS Access The file extension is “.accde”
- ◆ **MS Outlook:**It was released on January 16, 1997It is a personal information management system, It can be used both as a single-user application or multi-user software, It is the email client of the Office Suite
- ◆ **MS OneNote:** It was released on November 19, 2003, It is a note-taking application,When introduced, it was a part of the Office suite only. Later, the developers made it free, standalone and easily available at play store for android devices, The notes may include images, text, tables, etc.,The extension for OneNote files is “.one”

Venue : B-14, VIEW

Resource Person

Dr. S.V.G Reddy
Gitam, Vskp

Course Co-ordinator

Dr. T. Radha Krishna Murthy
Professor, Department of B S & H

Dr. S.V.G Reddy
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add-on Course on INTRODUCTION OF MS OFFICE

02nd July 2018 to 07th July 2018

Duration of the Course : 36 hrs

Introduction to

Office



Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
KAPUJAGGARAJU PETA VSEZ(POST.) VISAKHAPATNAM-530049
E mail viewvlgag@yahoo.com website vignanview.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have

made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

The course teaches the basic skills for word processing, for creating excel spreadsheets, for building databases and preparing presentations, through the use of Microsoft Office Word, Excel, Access, and PowerPoint programmes. Typical Jobs for MS Office skills: Administrative Assistant. Executive Assistant.

Objectives :

By the end of this course, students should be able to;

- To create a Microsoft account
- To be able to create, upload, and share Office documents via Office Online
- To be proficient in important Microsoft Office programs
- To be able to create documents for printing and sharing.

Outcomes

- Learners will be able to claim proficiency in Word and PowerPoint.
- Learners will be able to independently create professional-looking documents and presentations.
- Learners will be familiar with some advanced Word and PowerPoint functions.
- Learners will understand the functional differences between regular Office programs and Office Online.

310
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, V-57 (P.O.),
Visakhapatnam-49

Outcomes

- The student shall be able to
- To create awareness in the participants with regard to the different aspects of interpersonal relations.
- To empower participants to be better communicators by providing them with Relevant inputs and also sharpening their skills.
- To impart relevant knowledge, sharpen the requisite skills and orient attitudes of participants so that they become more efficient with regard to the management of time.

Course Content :

- ◆ Introduction to Leadership, Leadership Power, Leadership Styles, Leadership in Administration, Introduction to interpersonal Relations.
- ◆ Introduction to Communication, Flow of Communication, Listening, Barriers of Communication.
- ◆ Stress Management, Introduction to Stress, Causes of Stress, Impact Stress, Managing Stress
- ◆ Introduction to Conflict, Causes of Conflict, Managing Conflict, Management Time as a Resource, Identify Important time, Women Individual Time Management Styles, Techniques for better Time Management.
- ◆ Introduction to Motivation, Relevance and types of Motivation, Motivating the subordinates, Analysis of Motivation.
- ◆ Introduction to Skill Development. Are you a good Listener? Communication, skills, Telephone Etiquettes, Email Etiquettes, Handling of customer.

Venue : B-46, VIEW

Resource Person

Dr. V. Radha Krishna Murthy

Soft Skills Trainer, JCI

Course Co-ordinator :

Dr. G. Munisarala

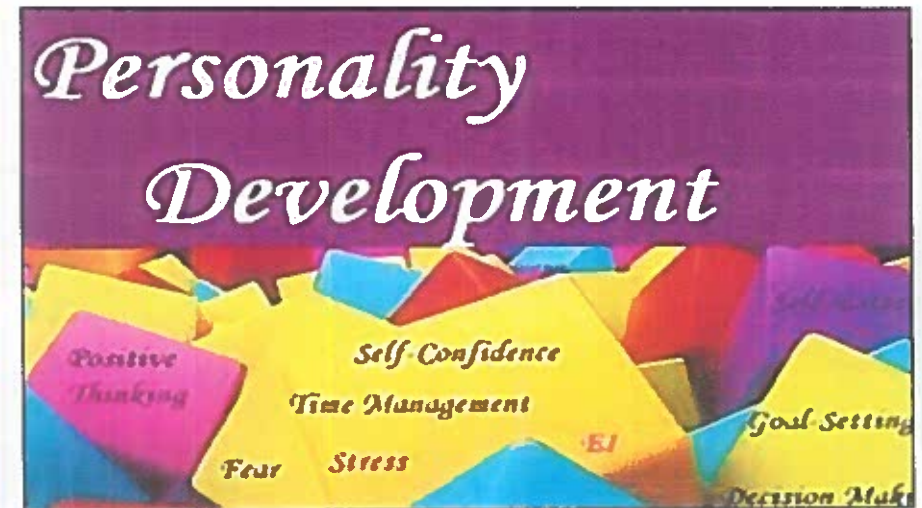
Asst. Professor, Department of B S & H

Add-on Course on

PERSONALITY DEVELOPMENT

02nd July 2018 to 07th July 2018

Duration of the Course : 36 hrs



Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA VSEZ(POST) VISAKHAPATNAM-530049

E-mail viewvizag@yahoo.com, website : vignanvow.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, BCE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

This course will emphasize on the student's overall personality development. His/her relationship among groups and individuals in the social and job environment. The course also emphasizes on student's ability to develop his personality through SWOT analysis at regular intervals, that enhances his/her ability in securing jobs, manage work relationship and social life.

Objectives :

By the end of this course, students should be able to;

- Understand the concept of values.
- Understand, appreciate personality development and respect cultural diversity.
- Understand the job search techniques, customs, and practices. It also will enable students to always meet the expectations of the employer.
- Understand and apply the learned concepts and principles at work place and social environment


PRINCIPAL
Vignan's Institute of
Engineering For Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Outcomes

The student shall be able to

- ❖ Effectively communicate through verbal/oral communication and improve the listening skills
- ❖ Actively participate in group discussion / meetings / interviews and prepare & deliver presentations
- ❖ Become more effective individual through goal/target setting, self-motivation and practicing creative thinking.

Course Content

- ◆ Introduction to Soft Skills, Aspects of Soft Skills, Effective Communication Skills, Classification of Communication, Personality Development
- ◆ Positive Thinking, Telephonic Communication Skills, non-verbal communication, Listening Skills, Types of Listening
- ◆ Negotiation Skills, Culture as Communication, Organizational Communication
- ◆ Leadership Skills, Group Discussion, Managerial Communication, Adaptability & Work Ethics
- ◆ Making Effective Presentations, Speeches for various Occasions, Interviews, Planning & Preparing: Effective Résumé,
- ◆ Facing Job Interviews, Emotional Intelligence & Critical Thinking

Venue : B-37, VIEW.

Resource Person

Mr. S.K. Chaithanya

Asst. Professor, Department of B S & H

Course Co-ordinator

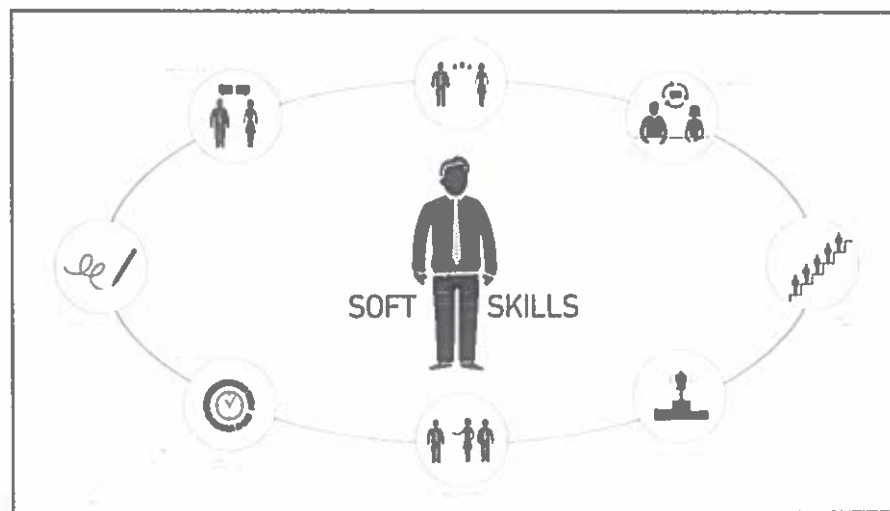
Mr. K. Ramesh

Asst. Professor, Department of B S & H

Add on Course on SOFT SKILLS & COMMUNICATION SKILLS

02nd July 2018 to 07th July 2018

Duration of the Course : 36 hrs



Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015 ISO 14001 2015 OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA, VSEZ(POST), VISAKHAPATNAM-530049

E-mail: viewvizag@yahoo.com, website: vignanview.org

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have

made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department


The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

The course aims at creating awareness among the students in which the role of individuals as team players and also as responsible leaders materializes to a great extent. The course, with its interactive and need based training, will address various challenges of communication as well as behavioral skills faced by individuals at workplace and organizations in bridging the gaps through effective skills of interviews, group discussions, meeting management, presentations.

Objectives

- To encourage the all-round development of students by focusing on soft skills.
- To make the engineering students aware of the importance, the role and the content of soft skills through instruction, knowledge acquisition, demonstration and practice.
- To develop and nurture the soft skills of the students through individual and group activities.


PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-49.

Add-on Course

on

INDIAN CULTURE AND HERITAGE

02nd July 2018 to 07th July 2018

Duration of the Course : 36 hrs



Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES



VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)

ISO 9001 : 2015, ISO 14001 2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION

KAPUJAGGARAJU PETA VSEZ(POST.) VISAKHAPATNAM-530049

E-mail viewvizag@yahoo.com, website : vignanview.org

Outcomes

The student shall be able to

- ❖ Describe the meaning and concept of culture and heritage
- ❖ Identify characteristics of Indian Culture
- ❖ Discuss the cultural identity, religion, region and ethnicity of Indian Culture
- ❖ Explain the characteristics of Indian Heritage.

Course Content

- Indian Culture: An Introduction to Ancient, Mediaeval and Modern India
- Indian Language and Literature
- Religion and Philosophy in Ancient, Mediaeval and Modern India
- Performing Arts: Music, Dance and Drama
- Science and Technology in India: Ancient, Mediaeval and Modern India
- Socio Cultural Issues in Contemporary India and spread of Indian Culture Abroad

380
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Venue : B-37, VIEW.

Resource Person

Mrs. K.G.B.Santosh Kumari

Assoc. Prof. VIEW

Course Co-ordinator

Dr. G.V Satyanaryana

Asst. Professor, Department of B S & H

About the Institute

Vignan's Institute of Engineering For Women, established in the year 2008, has been in the forefront of technical education services especially for women engineering aspirants. It is offering Graduate and Post Graduate courses in Engineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Over the years the institution has registered impressive growth rate in academics and R&D. Since the beginning the students of the college have made it a regular habit to top the performance charts of JNTUK examinations. Through several extension activities the institution is reaching out to the society nearby. The institution is having sophisticated laboratories, well ventilated class rooms, play grounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment for studies.

Vision

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

Mission

- 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.

About the Department

The Department of Basic Sciences & Humanities, established in the year 2008, has been the backbone of the engineering college by offering courses in Mathematics, Physics, Chemistry, Statistics, English and Environmental Science to the first year as well as second year students depending curriculum generated by the affiliating University. Apart from delivering the curricular content, the Department takes active role in imparting the necessary life skills and technical skills required for a budding engineer by including some short term courses as well. This will expand the scope and horizon of the young students. The department boasts of well qualified and experienced faculty and efficient infrastructure. The students in the first year have topped the University exams consecutively. Students regularly participate in the social service activities and co-curricular activities.

About the Course

India is one of the ancient civilizations of the world which has stood the test of time. In fact, what makes Indian culture unique among other ancient civilizations is its ability to accommodate and assimilate external influences and weave them into its own cultural fabric. This composite influence has not only enriched the cultural milieu of India, it has also made it stronger. Indian art, architecture, music, language, philosophy and religion reflect this diversity of influence that has occurred through centuries. This is the beauty of Indian Culture and Heritage. As Indian citizens not only do we need to be proud of this pluralistic & rich cultural heritage but also to study it objectively and assess it critically.

Objectives :

- Understand the concept and meaning of culture
- Establish the relationship between culture and civilization
- Establish the link between culture and heritage;
- Discuss the role and impact of culture in human life.
- Describe the distinctive features of Indian culture;
- Identify the central points and uniqueness of Indian culture;
- Trace the influence and significance of geographical features on Indian culture