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Course Outcomes

- Students will also be able to create schematics from blue-prints, they will also be able to perform simple Simulations
- The course is intended to give the students the necessary knowledge and of PCB design steps, starting from a simple schematic, through creating new components, and all the way to down a final PCB layout ready for population

Course Content

- Introduction to PCB designing concepts: What is PCB, Difference between PWB and PCB, Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer) PCB Material
- Introduction to Electronic design Automation (EDA):
- Brief History of EDA, Latest Trends in Market, How it helps and Why it requires Different EDA tools, Introduction to SPICE and PSPICE Environment, Introduction and Working of PROTEUS
- Component introduction and their categories:
- Active Components: Diode, Transistor, MOSFET, LED, SCR , Integrated Circuits
- Passive Components :Resistor, Capacitor, Inductor, Transformer, Speaker/Buzzer
- Practical of PCB designing:
- PCB Designing Flow Chart , Schematic Entry , Net listing ,PCB Layout Designing Prototype Designing, Design Rule Check(DRC), Design For Manufacturing(DFM) PCB Making o Printing ,Etching ,Drilling, Assembly of components
- PCB Materials : Standard FR-4 Epoxy Glass ,Multifunctional FR-4,Tetra Functional FR-4 ,NelcoN400-6,GETEK ,BT Epoxy Glass, Cyanate Aster ,Plyimide Glass, Teflon
- PCB Designing Practice :
- PCB Designing of Basic and Analog Electronic Circuits, PCB Designing of Power Supplies ,PCB Designing of Different Sensor modules ,PCB Designing of Electronics Projects, PCB Designing of Embedded Projects

Resource person

Name of the Resource Person: Mr. N. Mahidar, Millennium Software Solutions, Visakhapatnam.

gram Venue: Simulation lab (B-04)

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

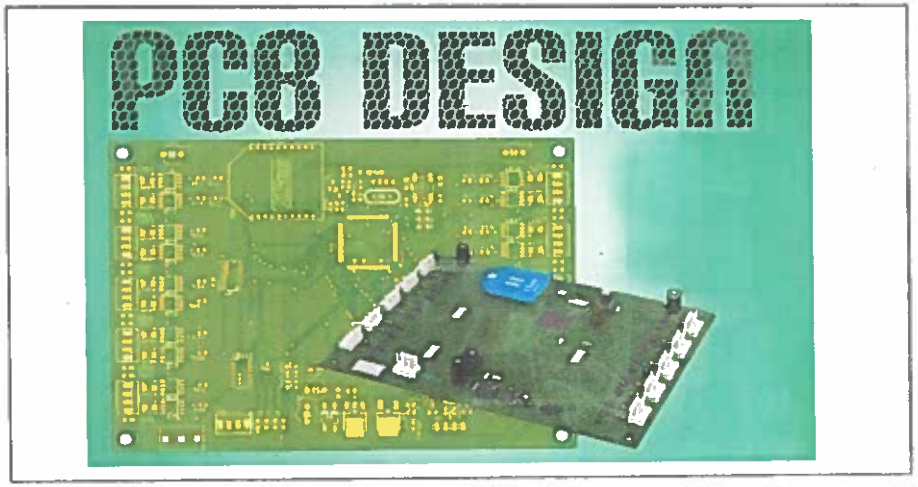
Co-ordinator

For Registration: Mr. K. Chiranjeevi
Assistant Professor
Department of Electrical and Electronics Engineering

Value Added Course
on
Design & Fabrication of PCB

04th Dec. 2017 to 11th Dec. 2017

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.

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

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.

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Vision

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Mission

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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 is a basic course for designing of PCB using software. PCB (Printed CircuitBoard) designing is an integral part of each electronics products and thisprogram is designed to make students capable to design their own projects PCB up to industrial grade. Understand the need for PCB Design and stepsinvolved in PCB Design and Fabrication process.

1. To design PCB using the software. PCB (Printed Circuit Board) designing is an integral part of each electronics product and
2. To design to make students capable to design their own projects PCB up to industrial grade.

Course Outcomes

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

- Able to understand about electrical wiring
- Ableto connect switches and lamps in series and parallel and do the automatic UPS wiring design.
- Design Automatic ups Wiring

Course Content

- Introduction to learn basics of household wiring, safety and testing, some information regarding electrical code rules and electrical permits
- Basics of electricity-flow of electricity, generation, transmission and distribution
- Distribution panel-the meter and main breaker, branch circuit breakers, neutral, grounding and bonding
- Wires and cables-wire colors, Cable, types, number of conductors, sizes, jacket colors, Breakers and How They Protect Cables and Wires
- Rough wiring-Planning and Guidelines, Pulling Cable, Stapling, and Drilling Holes, Electrical Outlet Boxes, Installing Cables, Removing Sheath and Stripping Wires
- Electrical outlets and switches-Single Pole Switches, Three-way Switches (3-way), Four-way Switches (4-way)
- Electrical outlets, Wiring Switched Receptacles, Wiring a Light Fixture

Resource Person

Name of the Resource Person: Mr. K Durga Syam Prasad,
Assoc. Prof., Dept. of EEE, V

Program Venue: Electrical Circuits lab (B-04)

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

Co-ordinator

For Registration:

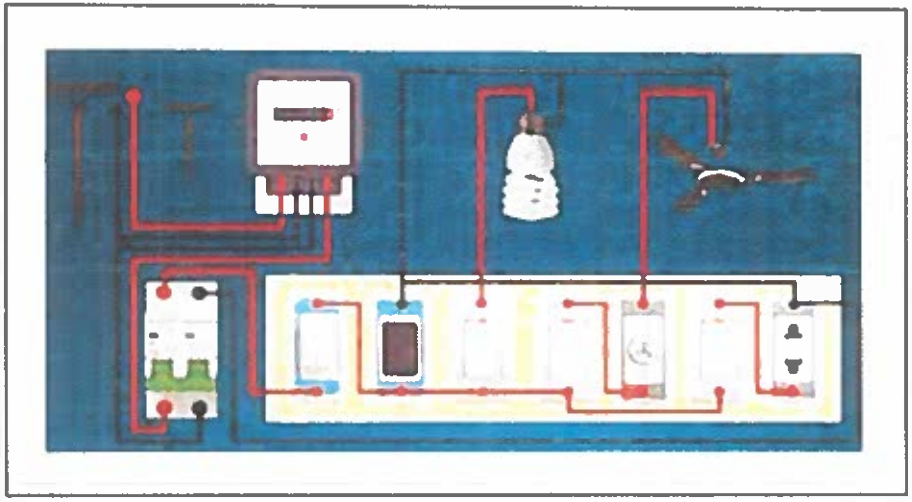
Mr. A. Chandraiah
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9393990143

Add on Course on

Basics on Electrical home laboratory

04th Dec. 2017 to 11th Dec. 2017

Duration of the course : 36 hrs



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Department of Electrical and Electronics Engineering

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Kapujaggarajupeta, Visakhapatnam-530 049.

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PRINCIPAL
Vignan's Institute of Engineering for Women
Kapujaggaraju Vaddeswaram, Visakhapatnam-49

About the Department

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Mission

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Course Description and Objectives

The following are the main objectives of Electricity Department.

- To understand about electrical wiring and providing uninterrupted power supply to all categories of consumers, i.e. assurance of quality in power supply.
- To Design Parallel Wiring and lamps in series
- To Design Automatic ups Wiring

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.
- Ableto learn the fundamentals of this emerging technology.

Course Content

- Introduction to IOT.
- Understanding IoT fundamentals
- Arduino Simulation Environment
- Arduino Uno Architecture
- Sensor & Actuators with Arduino
- Overview of Sensors working.
- Basic Networking with ESP8266 WiFi module
- Basics of Wireless Networking
- IoT Protocols.
- Cloud Platforms for IOT

Resource person

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

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

Program Venue: Electrical Simulation lab (B-04)

Co-ordinator

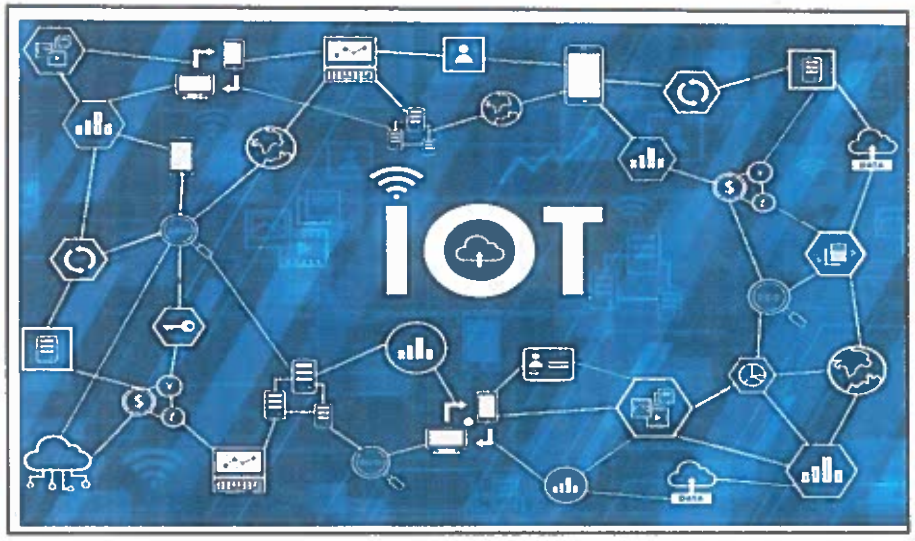
For Registration:

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

Add-on Course on Internet of Things using arduino

11th Dec. 2017 to 18th Dec. 2017

Duration of the Course : 42 hrs



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

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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).

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 about IoT fundamentals.
- ☐ Ableto apply various techniques onRaspberry 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.

Resource person

Name of the Resource Person: Dr. Akanksha Mishra
Assistant Professor, Department of EEE
VIEW

Program Venue: Electrical Simulation lab (B-04)

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

Co-ordinator

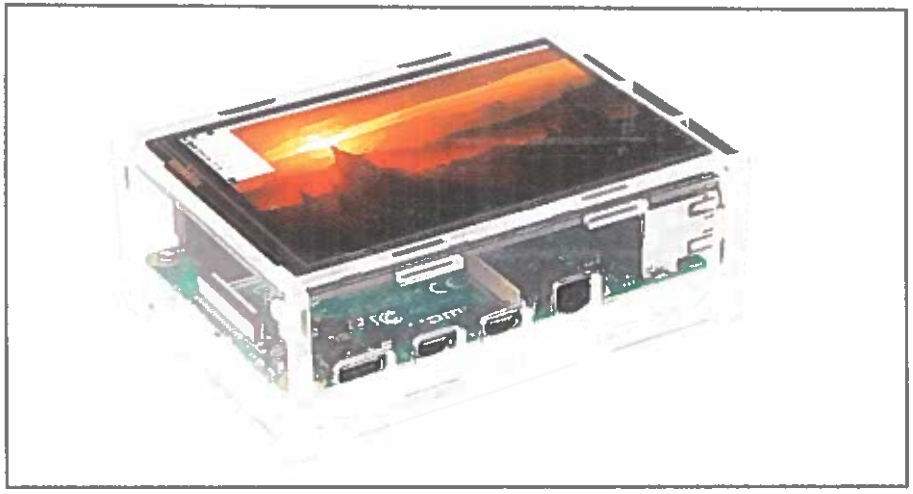
For Registration:

Ms. K. Therissa
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9949531531

Add on Course
on
Internet of Things (IoT) Using Raspberry Pi

11th Dec. 2017 to 18th Dec. 2017

Duration of the Course : 42 hrs



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Department of Electrical and Electronics Engineering

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

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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

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

outcomes:

- Design solar photo voltaic systems
- Develop maximum power point techniques in solar PV and wind energy systems

Course Content

- Introduction to green energy systems
- Solar Photovoltaic Systems
- Introduction of biomasIntroduction of hydro power, geothermal, Hydroelectric Power Station
- Introduction to wind power, solar energy, Applications
- Problems based on green energy, Real Time Applications based green energy
- Solar Thermal Conversion

Resource Person

Name of the Resource Person: Dr. B. Srinivas Rao

Professor, GITAM, Dept. of EEE

Program Venue: Electrical Simulation lab (B-04)

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

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

Add-on Course on High Efficient resources for Electricity generation

17th July 2017 to 24th July 2017

Duration of the Course : 35 hrs

Organized by

Department of Electrical and Electronics Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE & Affiliated to JNTUK)
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Kapujaggarajupeta, Visakhapatnam-530 049.

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PRINCIPAL
Vignan's Institute of Engineering for Women
Kapujaggaraju Peta, Vizianagaram-49

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Course Description and Objectives

Green energy comes from natural sources such as sunlight, wind, rain, tides, plants, algae and geothermal heat. These energy resources are renewable, meaning they're naturally replenished. In contrast, fossil fuels are a finite resource that take millions of years to develop and will continue to diminish with use

- Identify the essentials characteristics and technical requirements of photo voltaic, wind, low head hydro electric enery systems.
- To study maximum power point techniques in solar PV and wind energy.

Course Outcomes

1. Understand to produce ultra fine-grained microstructure in poly crystalline material.

2. Analyze how to do Hardness testing

Course Content

- Severe Plastic Deformation Techniques
- Accumulative Back Extrusion
- High Pressure Torsion Extrusion
- High Pressure Tube Twisting
- Multi Directional Forging
- Equal Channel Angular Pressing
- Benefits of ECAP
- Limitations of ECAP

Resource person

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

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

Program Venue: Room No : B-26

Co-ordinator

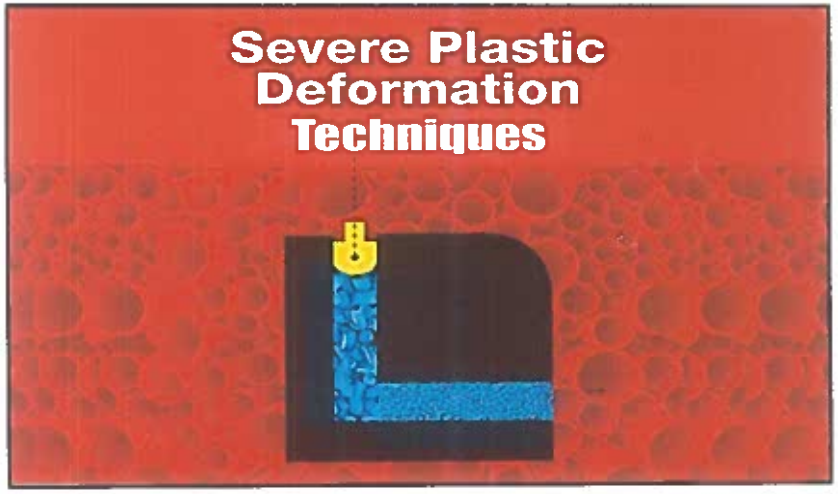
For Registration:
Mr. L.V. Suryam
Assistant Professor
Department of mechanical Engineering
Mobile:8184844846 Email Id: venkatasuryam@gmail.com

Value Added Course
on

Severe Plastic Deformation Techniques

17th July 2017 to 24th July 2017

Duration of the Course : 42 hrs



Organized
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Department of Mechanical Engineering

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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.

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PRINCIPAL
Vignan's Institute of Engineering for Women
VSEZ (P.O.)
Visakhapatnam-530049

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 severe plastic deformation (SPD) techniques highly received the attention of material scientists and engineers to develop an ultrafine grain (UFG) structured material in bulk form. A high amount of strain imposed on bulk materials causes a noteworthy reduction in grain size up to the few hundreds of nanometres. Equal channel angular extrusion (ECAE) is a widely used SPD technique to produce UFG structured bulk materials without any cross-sectional changes even in repetition

1. 3D modelling of the ECAP Process with various friction values using the Finite Element Software
2. Microhardness testing on the cross section of aluminium after processed with ECAP.

Course Outcomes

1. Able to understand the different types of welding.
2. Able to apply various tools of welding inspection.

Course Content

- Introduction
- Weld terminology
- Welding Imperfection
- Welding Procedure Qualification
- Material Inspection, codes and standards
- Welding Process and Consumables

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

Resource person

Name of the Resource Person: Mr. A. Srinivasulu,
Assistant Professor,
JNTUK-UCEV

Program Venue: Room No : B-26

Co-ordinator

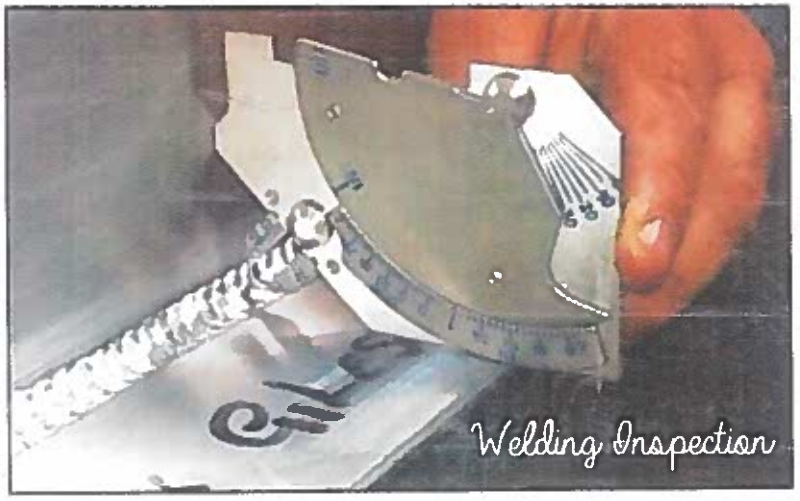
For Registration: Mr. D. Kesava
Assistant Professor
Department of mechanical Engineering
Mobile:70954 02730 Email Id: dkesaval31@gmail.com

Add-on Course
on

Welding Inspection

19th Feb 2018 to 24th Feb 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

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PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.)
Visakhapatnam-4

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.

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Course Description and Objectives

This course is Designed to prepare students for professional welding inspection. The Courses in welding inspection are often available through certificate or associate degree programs in welding technology. In addition to hands-on shop training, this program also includes a supervised work experience component.

1. To understand the various facets of welding inspection and quality control.

2. To assess the validity of a welding procedure.

Course Outcomes

1. Illustrate the fundamental principles and applications of refrigeration and air conditioning system
2. Obtain cooling capacity and coefficient of performance by conducting test on vapour compression refrigeration systems
3. Obtain cooling capacity and coefficient of performance by conducting test on vapour compression refrigeration systems

Course Content

- Heat pump and Refrigerating Machine, Best Refrigeration Cycle
- Steam-Jet refrigeration system, Thermoelectric refrigeration, Thermo acoustic refrigeration systems.
- Building Requirements and Energy Conservation in Air Conditioned Buildings
- Air conditioning systems for automobiles (cars, buses etc.)
- Winter Air Conditioning, Break-up of Ventilation Load and Effective
- Sensible Heat Factor, Cooling Load Estimate
- Psychrometric Calculations

Resource person

Name of the Resource Person: Dr. K. Kiran Kumar,
Associate Professor,
NIT Warangal

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

Program Venue: Room No : B-26

Co-ordinator

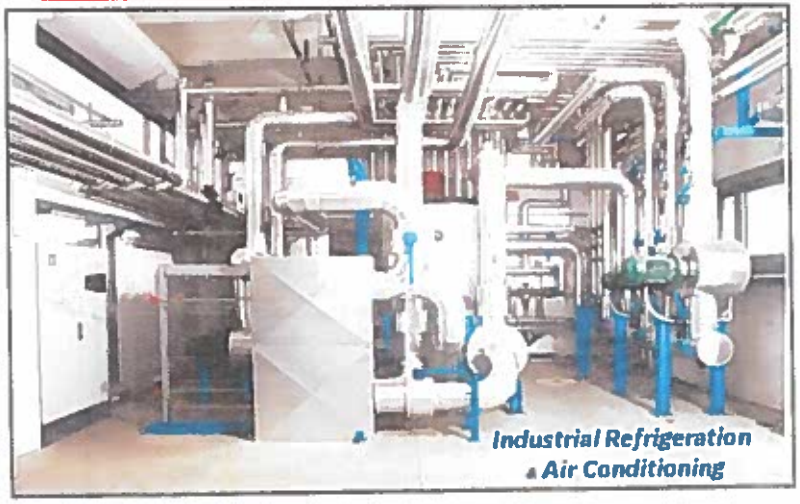
For Registration: Mr. A. V. Pradeep
Assistant Professor
Department of mechanical Engineering
Mobile:9866317946 Email Id: venkatpradeepallu@gmail.com

Add-on Course
on

Industrial Refrigeration and Air Conditioning

1st Aug 2017 to 24th Aug 2017

Duration of the Course : 42 hrs



Organized
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Department of Mechanical Engineering

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J. Peta, VSEZ (P.O.),
Visakhapatnam-49

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Course Description and Objectives

1.Learning the fundamental principles and different methods of refrigeration and air conditioning.
2.Study of various refrigeration cycles and evaluate per-formance using Mollier charts and/ or refrigerant property tables.
3.Comparative study of different refrigerants with respect to properties, appli-cations and environmental issues.
4.Understand the basic air conditioning processes on psychometric charts, calculate cooling load for its applications in comfort and industrial air conditioning.
5.Study of the various equipment-operating principles, operating and safety controls employed in refrigeration air conditioning systems.

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

Add on Course
on
Communication Engineering Fundamentals

29-01-2018 to 03-02-2018

Duration of the Course : 36 Hrs.

Organized
by
Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Accredited by NBA For UG Programmes of EEE, ECE, CSE & IT
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

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Kapuluppada, VSEZ (P.O.)
Visakhapatnam-49

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

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M3: To promote ethical values, personality and leadership skills through extra and co-curricular activities.

Course Description and Objectives

This course introduces the fundamentals of electronic communication systems. Topics include the frequency spectrum, electrical noise, modulation techniques, characteristics of transmitters and receivers, and digital communications.

1. To explain the fundamentals of signals and sampling and outline the concepts of analog and digital communications.

2. To demonstrate the outputs for various modulation techniques using MATLAB.

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Add-on Course on

Fundamentals of Internet of Things & its Applications

29-01-2018 to 03-02-2018

Duration of the Course : 36 Hrs.

Organized by

Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
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Course Description and Objectives

In this Internet of Things (IoT) Fundamentals and Applications course, students will learn general strategies for planning, designing, developing, implementing, and maintaining an IoT system. Besides other things, you will learn what are the building blocks of IoT and what are the underlying technologies that drive the IoT revolution.

1. To explain the necessity of IoT in real-time applications.

2.To outline the design and development methodologies for IoT applications

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Add on Course
on

Basics of Python

29-01-2018 to 03-02-2018

Duration of the Course : 36 Hrs.

PYTHON BASICS

Organized
by

Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Accredited by NBA For UG Programmes of EEE, ECE, CSE & IT
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Course Description and Objectives

Introduction to programming basics (what it is and how it works), binary computation, problem-solving methods and algorithm development. Includes procedural and data abstractions, program design, debugging, testing, and documentation. Covers data types, control structures, functions, parameter passing, library functions, arrays, inheritance and object oriented design. Laboratory exercises in Python.

1. To explain the basic concepts of Python Programming.
2. To summarize the python packages, installation procedures and standard libraries of Python.

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Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.)
Visakhapatnam-48

Course Outcomes

The Student will be able

1. To write program using Python language for solving simple/complex tasks.
2. To utilize the library functions for a specific application in coding.

Course Content

- Introduction:History of Python, Need of Python Programming, Applications Basics of Python Programming Using the REPL(Shell), Types, Operators and Expressions:
- Types - Integers, Strings, Booleans; Operators- Arithmetic Operators, Comparison (Relational) Operators, Assignment Operators, Logical Operators, Bitwise Operators, Membership Operators, Identity Operators.
- Data Structures Lists - Operations, Slicing, Methods; Tuples, Sets, Dictionaries, Sequences. Comprehensions, Functions - Defining Functions, Calling Functions, Passing Arguments, Keyword Arguments, Default Arguments, Variable-length arguments, Anonymous Functions, Fruitful Functions(Function Returning Values).
- Brief Tour of the Standard Library - Operating System Interface - String Pattern Matching, Mathematics, Internet Access, Dates and Times, Data Compression, Multithreading, GUI Programming, Turtle Graphics Testing: Basic concepts of testing, Unit testing in Python, Writing Test cases, Running Tests.

Resource Person

Name of the Resource Person: : Mr.Md. Ajmal,
Datapro Solutions,
Visakhapatnam

Program Venue: CEED LAB (C-35)

Co-ordinator

For Registration:

Mr.D.Tilak Raju,
Assistant Professor,
Mobile Number:9885423775 Mail Id:tilakraju55@gmail.com

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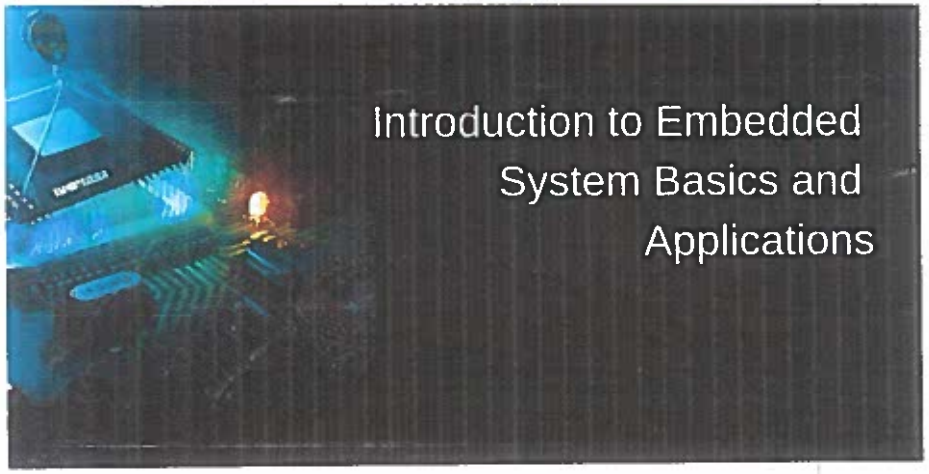
Add-on Course on

Fundamentals of Embedded Systems & its Applications

21-08-2017 to 26-08-2017

Duration of the Course : 36 Hrs.



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Department of Electronics and Communication Engineering

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Accredited by NBA For UG Programmes of EEE, ECE, CSE & IT
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Course Description and Objectives

To introduce the Building Blocks of Embedded System , to Educate in Various Embedded Development Strategies, to Introduce Bus Communication in processors, Input/output interfacing

1. To enable the students to understand embedded-system programming and apply that knowledge to design and develop embedded solutions.

2. Identify hardware and software components to build an embedded system.

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

Course Outcomes

The Student will be able

1. To write program using Embedded C Programming language for solving simple/complex tasks.

2. To demonstrate an idea to develop a product by interfacing the sensors to the processor .

Course Content

- Basic Knowledge of Embedded Systems: Layout model of Embedding System, Example of Embedded System, Embedded System for a Car, Components of Embedded System, embedded System Hardware, Features of an Embedded System.
- Future of Embedded Processors, Languages for Programming Embedded Systems, Classifications of Embedded System.Real-time Embedded Systems, Stand Alone Embedded Systems.
- Network Embedded Systems, Mobile Embedded Systems, Medium Scale Embedded System, Sophisticated Embedded System, Embedded System Constraints,Applications of Embedded System.
- Hardware in Embedded Systems, Programming concepts in Embedded C, Difference between C & Embedded C, Programming style, Basic structure of C program, Interfacing of LED, LCD, motors, sensor interfacing, Hands on session for real-time applications of embedded systems.

Resource Person

Name of the Resource Person: : Mr Seshu patnaik,
Electro pro,
Visakhapatnam

Program Venue: MPMC LAB (C-33)

Co-ordinator

For Registration:

Mrs. Ch. Anitha Bhavani ,
Assistant Professor,
Mobile Number:8978273290 Mail Id:anithabhavani.ch@gmail.com

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K.J.Peta, VSEZ (P.O.),
Visakhapatnam-48

Add on Course on

Employment Skills

21-08-2017 to 26-08-2017

Duration of the Course : 36 Hrs.

Organized by

Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
Accredited by NBA For UG Programmes of EEE, ECE, CSE & IT
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

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

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 is designed to help students identify the knowledge and skills required for obtaining and keeping employment. Course work will emphasize individual skill assessments, interpersonal communication skills, workplace responsibilities, teamwork skills, safety issues, and personal management skills for the workplace.

1. To practice behavioural skills for improving their communication skills.

2. To discuss the IT fundamentals and various business models to encourage entrepreneur.

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Course Outcomes

The Student will be able
1. To develop cognitive skills demanded by the industry.

2. To understand the aspects of Entrepreneur initiatives and development.

Course Content

- Behaviour Skills: Instruction, modeling, rehearsal, and feedback, Written reminders or "aids" , oral instructional portion, answering questions, restating, performing part of the task to check for understandingnon-exempiars and the consequences, English Literacy skills: fundamental language skills, How to Improve speaking, reading and listening skills, practical sessions on speaking, reading through learning activities.
- IT Literacy skills: Computer Fundamentals, Database Fundamentals, Basics of using a relational database to create tables, forms and reports, Digital Media Fundamentals, Internet Concepts, search engines, work with electronic mail (e-mail), and create Web pages with Microsoft FrontPage, Presentation Fundamentals, multimedia presentations.
- Entrepreneurship skills: Introduction To Entrepreneurship, Psychological Aspects of Entrepreneurship, The Theory Of Effectuation, Deep Diving Into The Entrepreneurial Process, Entrepreneurial Opportunity Recognition, Evaluation And Action, Business Models And Business Model Innovation, Protecting Intellectual Property

Resource Person

Name of the Resource Person: : Dr.T.V.Madhusudhan Rao,
Professor, Dept. of. CSE,
VIIT, Visakhapatnam

Program Venue: English Communication Lab (B-37)

Co-ordinator

For Registration:

Mr. P. Sudhakar,
Assistant Professor,
Mobile Number:7780405914, Mail Id:sudhaarp@view.edu.in

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.

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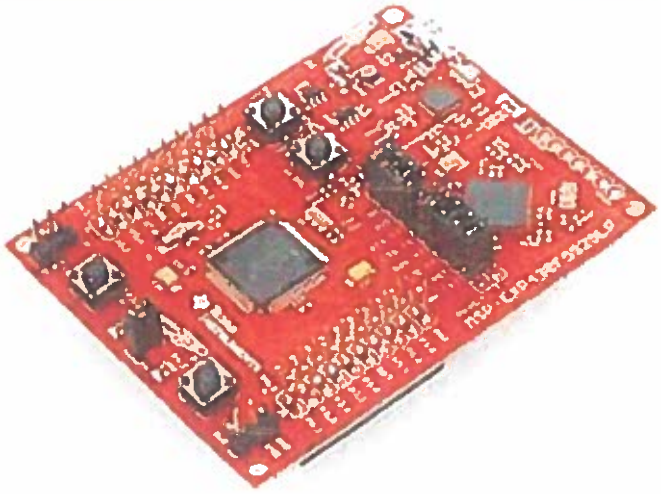
Visakhapatnam-4

Add-on Course on System Design using MSP 430 Microcontrollers

21-08-2017 to 26-08-2017

Duration of the Course : 36 Hrs.



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Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

Accredited by NBA For UG Programmes of EEE, ECE, CSE & IT

KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

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Course Description and Objectives

This course is designed to help users to get in-depth knowledge about the MSP430 microcontroller. The course started from the very beginning and jump right into laboratory assignments. This course covers the fundamental skills needed when designing a system based on the Texas Instruments (TI) MSP430 microcontroller (MCU). This course explains TI's integrated development environment (IDE) which is named Code Composer Studio (CCS).

1. To explain the architectures of MSP 430 Processor, its internal structure, input/ output interconnections, and Hardware & Software tools.

2. To demonstrate the real-time applications and their features using MSP 430 .

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Course Outcomes

The Student will be able

1. To connect MSP 430 Processor to input and output devices for validation of the designed model.
2. To use MSP 430 for weather monitoring, green house monitoring etc. applications.

Course Content

- MSP 430 processor architecture: MSP430: Features of MSP430 suitable embedded application, Different families and namingof MSP430, MSP430 Architecture: Data sheet reading of MSP430-TheOutside View—PinOut, The Inside View—Functional Block Diagram. Central Processing Unit:ProgramCounter (PC), Stack Pointer (SP), Status Register (SR), Constant Generators, GeneralPurpose Registers, Memory, memory-Mapped Input and Output, Clock Generator,Exceptions.
- MSP 430 Instruction set: Classification-Constant Generator and Emulated instructions,Movement Instructions, Arithmetic and Logic Instructions with Two Operands, Shift andRotate Instructions, Flow of Control instructions. Simple assembly languageprograms.Program development.
- MSP430 GPIO, Timer and On-chip Peripherals: Digital Input-Output: Non Interruptible I/O and Interruptible I/O: Pin logic diagram DifferentControl Register, Port register Table.Timers:Classification of timers. Timer_A- Block diagram,Capture/Compare channels, interrupts and application.

Resource Person

Name of the Resource Person: : Mr. Seshu patnaik,
Electro pro,
Visakhapatnam

Program Venue: MPMC Lab (C-33)

Co-ordinator

For Registration:

Mr. P.Gopi Krishna
Assistant Professor,
Mobile Number:9603260132, Mail Id:gopikrishnap@view.edu.in

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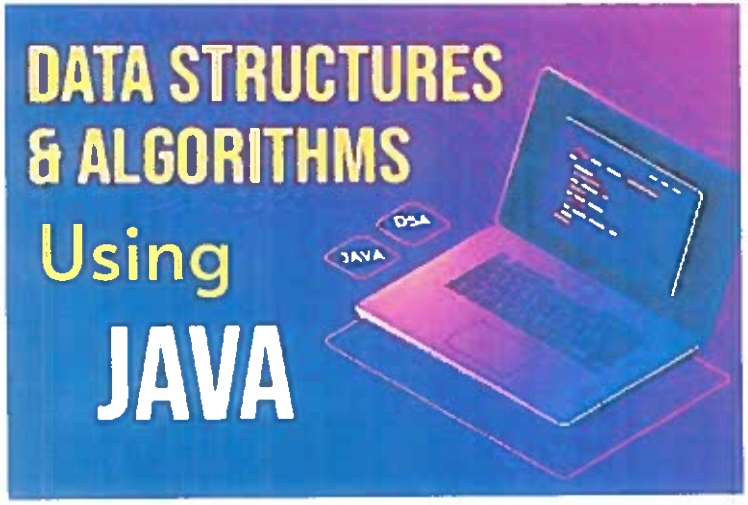
Visakhapatnam-49.

Add-on Course on Data Structures and Algorithms using JAVA

18-12-2017 to 23-12-2017

Duration of the Course : 36 Hrs.



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Course Description and Objectives

This course aims to cover the essential topics of data structures and algorithms and how the same can be implemented using Java programming language. The participants of the proposed course will be able to improve their skills, to cope with the current demand of IT industries and solve many problems in their own filed of studies.

1. To explain the basic concepts of data structures and algorithms using JAVA.

2. To discuss various sorting and searching algorithms.

Vignan's Institute of Engineering for Women
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Visakhapatnam-48.

Course Outcomes

The Student will be able

1. To write program using JAVA language for solving simple/complex tasks.

2. To demonstrate the concepts of searching and sorting algorithms suitability for a specific application

Course Content

- Introduction to Data Structure,Arrays: Introduction to array, One dimensional primitive and non-primitivearray, Multidimensional primitive and non-primitive array
- Linked List: Introduction to LinkedList, Implementation of linked list, different Operation on Linked List, Traversing, Searching, Insertion.
- Stack: Stack introduction, Array Implementation of stack, Push and pop operations on stack, Linked Implementation of stack, Applications of stack.
- Queue: Introduction to Queue,Array Implementation of Queue, Linked Implementation of Queue, Types of queues, Circular queue, Priority queue, Dequeue.
- Tree: Introduction to various tree, Binary Tree, Binary Search Tree, Strict Binary Tree, Complete Binary Tree, Extended Binary Tree, Balanced Tree, Implementation of Binary search tree, Traversal in Binary Search Tree.
- Graph: Introduction to Graph, Undirected Graph, Directed Graph, Implementation of Graph, Traversal in Graph, Breadth First Search, Depth First Search, Shortest Path Algorithm (Dijkstra).
- Sorting: , Various sorting Techniques and algorithms, Bubble Sort, Selection sort, insertion sort, quick sort, merge sort, Searching: Linear Search, Binary Search, Hashing

Resource Person

Name of the Resource Person: : Mr Md.Ajmal,
DATAPRO Solutions pro,
Visakhapatnam

Program Venue: CEED Lab (C-35)

Co-ordinator

For Registration:

: Mrs.S.Malathi
Assistant Professor,
Mobile Number:9032352626, Mail Id:malathibommali@gmail.com

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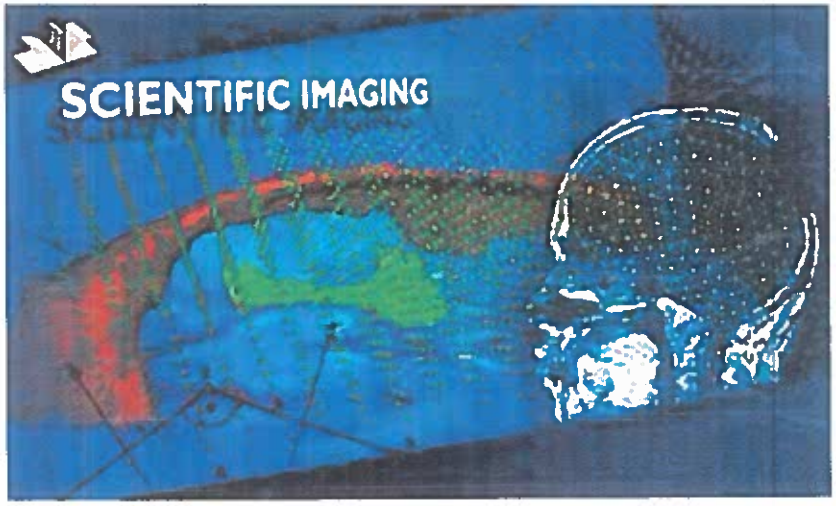
Add on Course on

Scientific Imaging

18-12-2017 to 23-12-2017

Duration of the Course : 36 Hrs.



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Course Description and Objectives

This Course Provides an introduction to the General Field of image science.The Course Provides an overview of the many application domains of imaging in the medical,Remote sensing.This Course Inended for graduate students intresed in area of imaging.

1. To understand the basics of medical imaging modalities.

2.To discuss the methods of fusion for MRI-PET modalities.

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Course Outcomes

The Student will be able
1. To discuss the principles of MRI, PET modalities.

2.To simulate the fusion methods in MATLAB for various medical analysis.

Course Content

- Introduction to the Science of Medical Imaging, scientific imaging principles, optimize imaging system, Acquisition, post processing and visualization. Segmentation, visual feature extraction, classification, quantitative measurements and Intrepretation, Image Management.

- Major biomedical imaging modalities, Principles of MRI, PET modalities, Image reconstruction, Signal Optimization, Complementary information capture from MRI & PET modalities and their characterization, Interpreting the data from images, fusion necessity.

- Basics of human and computer image analysis,Quantiative image analysis, Measurement, Technical validation, standard operating procedures, Regulatory issues, Examples

Resource Person

Name of the Resource Person: : Dr. Puvvada Ramesh,
Rtd.Professor, Dept. of. ECE,
VIIT Visakhapatnam

Program Venue: (A-35)

Co-ordinator

For Registration:

Mr.K.Sridhar
Assistant Professor,
MobileNumber:9885683364, Mail Id:sridharkovvada@gmail.com

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Add-on Course on

Advanced Radar Systems

18-12-2017 to 23-12-2017

Duration of the Course : 36 Hrs.

Organized by

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Course Description and Objectives

This course begins with an overview of modern and next-generation radar systems, with an emphasis on the digital receiver and post-processing that follows the RF front-end, which includes Ethernet connectivity. Waveform design and scan strategies will be covered to render optimal hardware design.

1. To explain the advanced concepts in RADAR systems.

2. To explain the characteristics of SAR, Beamforming and space-time adaptive processing

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Course Outcomes

The Student will be able

To discuss the sampling, quantization process of Pulse Radar signals.

To understand the algorithms of adaptive signal processing.

Course Content

- Radar Literature, Signal Models, components of aRadar Signal, Amplitude Models, clutter, Noise Model and Signal -to -Noise Ratio, Jamming.
- Sampling and Quantization of Pulsed Radar Signals, Domains and Criteria for Sampling RadarSignals, Sampling in the Fast Time Dimension, Sampling in Slow Time – Selecting the PulseRepetition Interval, Sampling the Doppler Spectrum.
- Doppler Processing, Alternate Forms of the Doppler Spectrum, Moving Target Indication (MTI), PulseDoppler Processing, Pulse Pair Processing, Additional Doppler Processing Issues.
- Introduction to Synthetic Aperture Imaging, Introduction to SAR Fundamentals, Stripmap SAR DataCharacteristics, Stripmap SAR Image Formation Algorithms, Spotlight SAR Data Characteristics, thePolar Format Image Formation Algorithm for Spotlight SAR, Interferometric SAR.
- Introduction to Beamforming and Space-Time Adaptive Processing- Spatial Filtering, Space-TimeSignal Environment, Space Time Signal Modeling, Processing the Space Time Signal.

Resource Person

Name of the Resource Person: Mr. A Sesha Rao,
Rtd. SCIENTIST,NSTL

Program Venue: (A-36)

Co-ordinator

For Registration:

Mr.K.Rajendra Prasad
Assistant Professor,
Mobile Number:934675130, Mail Id:rajendraprasadkuriti@gmail.com

Course Outcomes

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

- Design and deploy web-sites.
- Create simple database applications.
- Describe the basics of networking and mobile communications.

Course Contents

- Web Essentials Creating a Website - Working principle of a Website - Browser fundamentals-Authoring tools - Types of servers: Application Server - Web Server - Database Server
- Scripting Essentials - Need for Scripting languages - Types of scripting languages - Client-side scripting - Server-side scripting.PHP-Working principle of PHP - PHP Variables - Constants - Operators Flow Control and LoopingPHP Arrays - Strings - Functions - File Handling - PHP and MySQL-PHP and HTML – Cookies - Simple PHP scripts
- Networking Essentials- Fundamental computer network concepts - Types of computer networks - Network layers - TCP/IP model - Wireless Local Area Network - Ethernet Wi-Fi - Network Routing - Switching - Network components
- Mobile Communication Essentials: Cell phone working fundamentals - Cell phone frequencies & channels - Digital cell phone components - Generations of cellular networks - Cell phone network technologies/architecture - Voice calls & SMS.
- Application Essentials: Creation of simple interactive applications - Simple database applications - Multimedia applications - Design and development of information systems - Personal Information System - Information retrieval system - Social networking applications

Resource Person

Name of the Resource Person: Mr.G.Sridhar Reddy,
Technical Lead, Siri Technologies,
Hyderabad

Program Venue: Advanced Programming Lab B-15

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Visakhapatnam-49

Faculty Coordinator

For Registration:

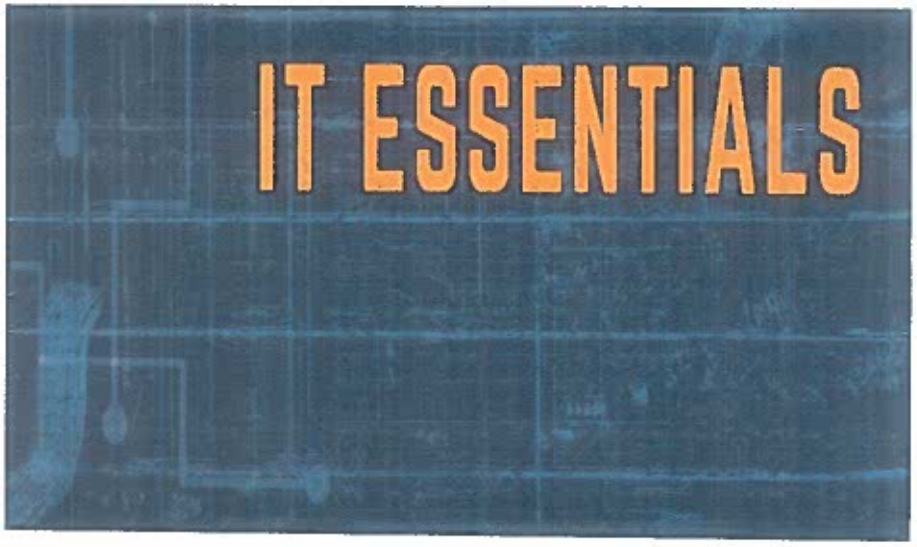
Mr. N. K. Santosh
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on

IT Essentials

29th Jan 2018 to 05th Feb 2018

Duration of the Course : 35 hrs



Organized
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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
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Peta VSEZ (P.O.),
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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 IT Essentials PC Hardware and Software course will cover the fundamentals of computer technology as well as advanced concepts. It is designed for students who want to pursue careers in ICT and students who want to gain practical knowledge of how a computer works.

- To introduce the concept of Internet, Networks and its working principles.
- To understand various applications related to Information Technology.

Course Outcomes

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

1. Create, run and manipulate Database using Python.
2. Build GUI Using Libraries and widgets.

Course Contents

1. Object-oriented Concepts- Class, Object, Method, Inheritance Polymorphism, Data Abstraction, Encapsulation, Decorators, Generators, Iterators
2. Threading in Python- Creation, Execution of threads using threading module.
3. Database programming using Python- Connecting to a database (SQLite) using Python Sending DML and DDL queries and processing the result from a Python Program.
4. GUI in Python- Introduction to GUI building libraries, Widgets- Button, Canvas, Check button, Frame, Label, Menu, Radio button, Scrollbar, Text, Spin box, Paned Window ,Label Frame.
5. Basic numerical processing using Python- Introduction to numpy, Matrix manipulation.
6. Basing data analysis using Python- Introduction to Pandas, Panda's data structures – Series and Data Frame.
7. Basic data visualization using Python -Introduction to Matplotlib, Scatter plot, Line plot, Bar chart.

Resource Person

Name of the Resource Person: : Santosh Chaluvadi
CEO, Supraja Technologies
Vijayawada

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

Program Venue: Data Base design Lab C-22

Faculty Coordinator

For Registration:

Mrs. K. Nasaramma
Assistant Professor
Department of Computer Science and Engineering

Add on Course
on

Advances in Python Programming

29th Jan 2018 to 05th Feb 2018

Duration of the Course : 35 hrs

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Department of Computer Science and Engineering

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(Approved by AICTE & Affiliated to JNTUK)
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Kapujaggarajupeta, Visakhapatnam-530 049.

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Vision

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

PRINCIPAL
Vignan's Institute of Engineering for Women
Peta, 4[illegible] (P.O.),
Visakhapatnam-4[illegible]

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.

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Course Description and Objectives

Python Programming Essentials covers all the basics of programming in Python, as well as general computer programming concepts and techniques. The course also familiarizes the student with the object-oriented approach. The aim of the course is to familiarize the student with general computer programming concepts like conditional execution, loops, Python programming language syntax, semantics, and the runtime environment, as well as with general coding techniques and object-oriented programming.

1. To understand the Object-oriented Concepts, Threads.
2. To understand connect and working with Database.
3. To build GUI using Libraries and Widgets.
4. To understand the concepts python Libraries, plotting the graphs.

Course Outcomes

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

- Examine Python syntax and semantics and apply Python flow control and functions.
- Create, run and manipulate Python Programs using core data structures like Lists, Tuples.
- Interpret the concepts of Object-Oriented Programming as used in Python.

Course Contents

1. Data Structures – Definition, Linear Data Structures ,Non-Linear Data Structures Python Specific Data Structures: List, Tuples, Set, Dictionaries, Comprehensions and its Types, Strings, slicing.
2. Arrays - Overview, Types of Arrays, Operations on Arrays, Arrays vs List.Searching -Linear Search and Binary Search. Sorting - Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort.
3. Linked Lists – Implementation of Singly Linked Lists, Doubly Linked Lists, Circular Linked Lists.
   Stacks - Overview of Stack, Implementation of Stack, Applications of Stack
4. Queues: Overview of Queue, Implementation of Queue, Applications of Queues, Priority Queues.
5. Graphs -Introduction, Directed vs Undirected Graphs, Weighted vs Unweighted Graphs, Representations, Breadth First Search, Depth First Search.
6. Trees - Overview of Trees, Tree Terminology, Binary Trees: Introduction, Implementation, Applications. Tree Traversals,
7. Binary Search Trees: Introduction, Implementation, AVL Trees: Introduction, Rotations, Implementation.

Resource Person

Name of the Resource Person: Dr. B. Prakash,
Professor, Dept of CSE, VITS,
Hyderabad

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

Program Venue: Network Programming Lab B-16

Faculty Coordinator

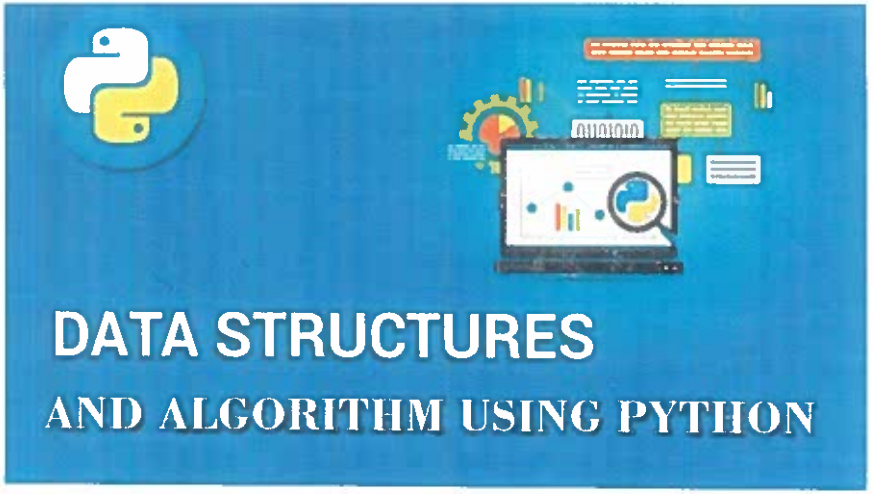
For Registration:

Mr. I. Raju
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on
Data Structures and Algorithm using Python

29th Jan 2018 to 05th Feb 2018

Duration of the Course : 35 hrs



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Department of Computer Science and Engineering

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Kapuluppada (P.O.), Vizianagaram-49

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Course Description and Objectives

In this course it provides a comprehensive explanation of data structures like linked lists, stacks and queues, binary search trees, heap, searching and hashing.

- Implement Object Oriented Programming concepts in Python.
- Understand Lists, Dictionaries and Regular expressions in Python.
- Understanding how searching and sorting is performed in Python.
- Understanding how linear and non-linear data structures works.

Course Outcomes

At the end of the course, the student will have the ability to
1. Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions.
2. Work with user input to create fun and interactive programs.

Course Contents

1. Introduction: Introduction to Python, Program Development Cycle, Input, Processing, and Output, Displaying Output with the Print Function, Comments,
2. Variables, Reading Input from the Keyboard, Performing Calculations, Operators. Type conversions, Expressions, More about Data Output.
3. Data Types, and Expression: Strings Assignment, and Comment, Numeric Data Types and Character Sets, Using functions and Modules.
4. Decision Structures and Boolean Logic: If, if-else, if-elif-else Statements, Nested Decision Structures, Comparing Strings, Logical Operators, Boolean Variables.
5. Repetition Structures: Introduction, while loop, for loop, Calculating a Running Total, Input Validation Loops,Nested Loops.
6. Control Statement: Definite iteration for Loop Formatting Text for output, Selection If and if else Statement Conditional Iteration The While Loop
7. Strings and Text Files: Accessing Character and Substring in Strings, Data Encryption, Strings and Number Systems, String Methods Text Files.

Resource Person

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

Program Venue: : Network Programming Lab B-Ic

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

Faculty Coordinator

For Registration:

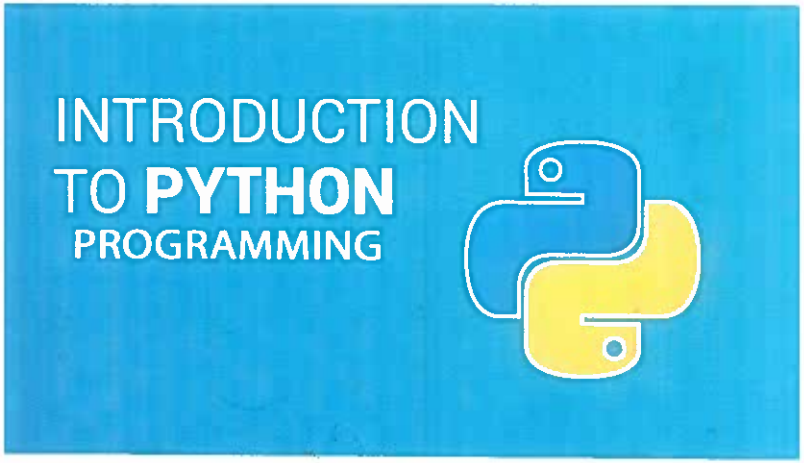
Mrs. Y. Vineela Sravya
Assistant Professor
Department of Computer Science and Engineering

Add on Course
on

Introduction to Python programming

04th July 2017 to 11th July 2017

Duration of the Course : 35 Hrs.



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Department of Computer Science and Engineering

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

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Course Description and Objectives

Introduction to programming basics, binary computation, problem-solvingmethods and algorithm development. Includes procedural and data abstractions, program design,debugging, testing, and documentation. Covers data types, control structures, functions, parameterpassing, library functions, arrays, inheritance and object oriented design. Laboratory exercises in Python.

- Understand basic principles of computers.
- Understand basics of binary computation.
- Understand the programming basics (operations, control structures, data types, etc.).

Course Outcomes

- Understand the applications and use cases of AI and how it is transforming our lives.
- Describe several issues and ethical concerns surrounding AI.
- Articulate advice from experts about learning and starting a career in AI.

Course Contents

- Introduction to Artificial intelligence: Introduction, history, intelligent systems, foundations of AI, applications, tic-tac-tie game playing, development of ai languages, current trends in AI
- Problem solving: State-space search and control strategies: Introduction, general problem solving, characteristics of problem, exhaustive searches, heuristic search techniques, iterative deepening, constraint satisfaction.
- Problem reduction and game playing: Introduction, problem reduction, game playing, alpha beta pruning, two-player perfect information games
- Logic concepts: Introduction, propositional calculus, proportional logic, natural deduction system, axiomatic system,

Resource Person

Name of the Resource Person: Mr.K.Bharadwaj,
Technical Trainer, Amun Technologies
Visakhapatnam

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

Program Venue: : Advanced Programming Lab – B15

Faculty Coordinator

For Registration:

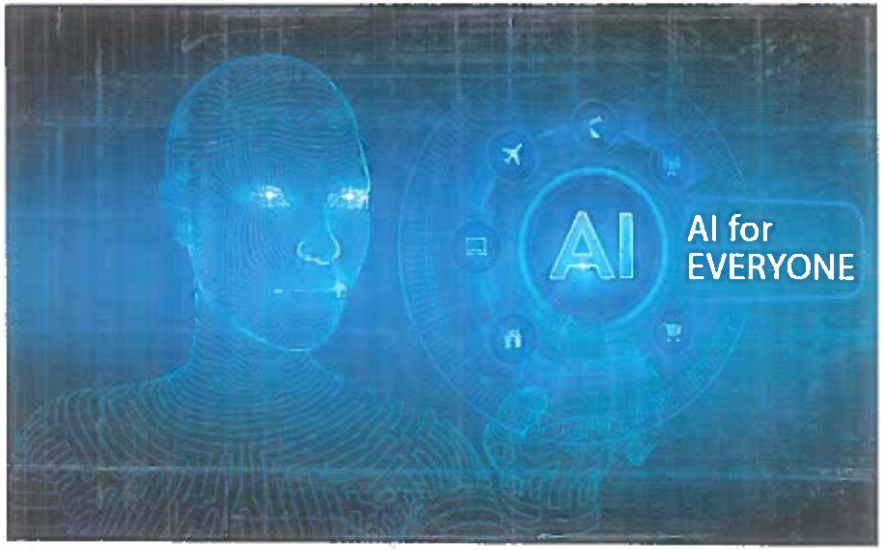
Mr. A. N. Suresh
Assistant Professor
Department of Computer Science and Engineering

Add on Course
on

AI for Everyone

04th July 2017 to 11th July 2017

Duration of the Course : 35 hrs



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Course Description and Objectives

Artificial intelligence (AI) is a research field that studies how to realize the intelligent human behaviors on a computer. The ultimate goal of AI is to make a computer that can learn, plan, and solve problems autonomously. Although AI has been studied for more than half a century, we still cannot make a computer that is as intelligent as a human in all aspects. However, we do have many successful applications.

- The basic principles, models and algorithms of AI to recognize, model, and solve problems in the analysis and design of information systems.
- The structures and algorithms of a selection of techniques related to searching, reasoning, machine learning, and language processing.

Course Outcomes

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

- Recognise the factors that contributed to the emergence of IoT.
- Design and program IoT devices and protocols for communication.
- Emphasize the elements of IoT devices to work with a Cloud Computing infrastructure.

Course Contents

- Introduction to IoT
- Software Analysis and Tooling
- Network, Linking & Loading
- System Programming and OS Dependencies
- Cloud Computing Services Cloud and IoT Integration.
- IoT Data and the Cloud Week, Cloud Evolution
- IoT applications

Resource Person

Name of the Resource Person: Mr. S.Mahesh Chandra ,
Head, IoT Division,
Datapro Solutions

Program Venue: : Basic Programming Lab B-II

Faculty Coordinator

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

For Registration:

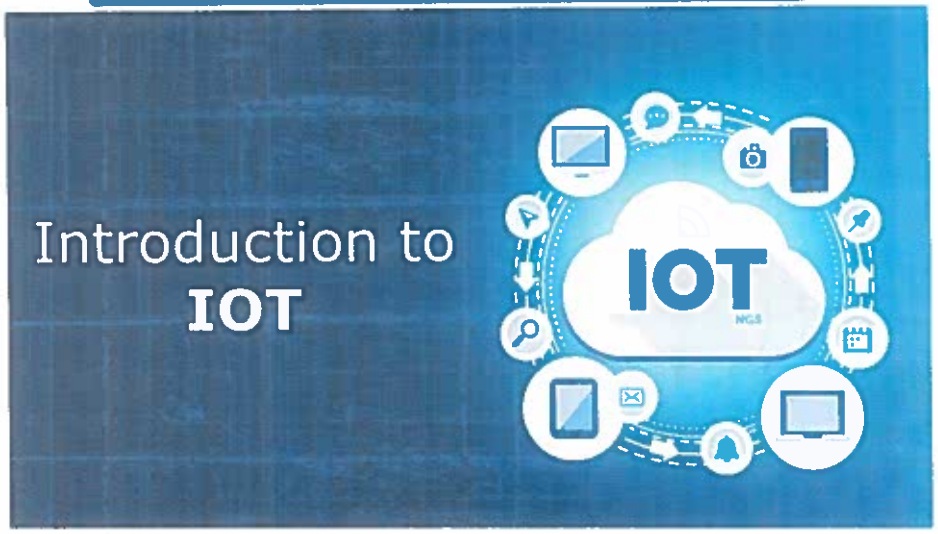
Mrs. D. Kamal Kumari
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on

Introduction to Internet of Things

4th July 2017 to 11th July 2017

Duration of the Course : 35 hrs



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Course Description and Objectives

This course will describe the market around the Internet of Things (IoT), the technology used to build these kinds of devices, how they communicate, how they store data, and the kinds of distributed systems needed to support them.

- Understand the definition and significance of the Internet of Things.
- Discuss the architecture, operation, and business benefits of an IoT solution.
- Examine the potential business opportunities that IoT can uncover.
- Explore the relationship between IoT, cloud computing, and big data.

Course Outcomes

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

- Learn Problem solving and programming capability.
- To do projects with this emerging programming Language.

Course Contents

- Introduction to Python, Uses of Python Programming Language / Python Applications, Python for Software development, Python for Networking.
- Modes of Programming in Python, Interactive mode programming, Script mode programming, Creating Python program file, Python Identifiers, Python keywords, Lines and Indentation, Spilt Python statements, Join Python Statements, Writing code blocks, Comments in Python, and Quotation in Python.
- Python keywords or Reserved words, Python keywords define the syntax and structure of the Python language, Python keywords are case sensitive, Python literals.
- Implicit Declaration of Data Types, Python Numbers (Integers, floating-point numbers, and complex numbers), Python Strings, Python Boolean data type.
- Modes of Programming in Python, Interactive mode programming, Script mode programming, Creating Python program file, Python Identifiers, Python keywords, Lines and Indentation, Spilt Python statements, Join Python Statements, Writing code blocks, Comments in Python, and Quotation in Python.

Resource Person

Name of the Resource Person: Mr. S .Chandra Sekhar,
CEO, Chandu Soft Technologies Pvt Ltd

Program Venue: Network Programming Lab B-16

Faculty Coordinator

For Registration:

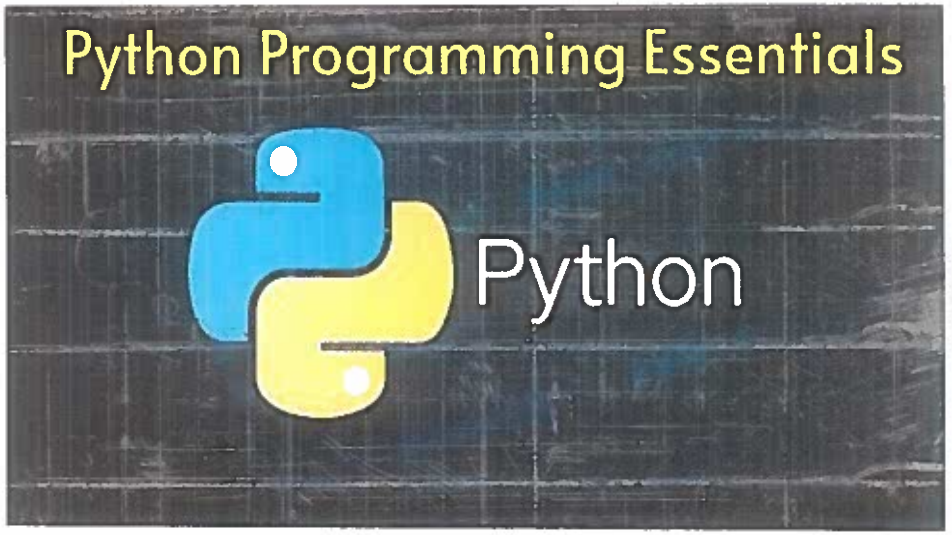
Mrs. K. Madhuri
Assistant Professor
Department of Computer Science and Engineering

PRINCIPAL
Vignan's Institute of
Engineering for Wo
K.J. Peta, VSEZ (P.
Visakhapatnam

Add - on Course
on
Python Programming Essentials

4th Dec 2017 to 9th Dec 2017

Duration of the Course : 42 Hrs.



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Course Description and Objectives

- This course will cover expressions, variables, functions, logic and conditionals, which are foundational concepts in computer programming.
- How to use Python modules, which enable you to benefit from the vast array of functionality that is already a part of the Python language can be known.
- These concepts and skills will help you to begin to think like a computer programmer and to understand how to go about writing Python programs

Course Outcomes

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

- Understanding the key dimensions of the challenge of Grid Computing.
- Assessment of the economics, financial, and technological implications for selecting Grid computing for own organization.
- Assessment of own organizations' needs for capacity building and training in Grid computing-related IT areas.

Course Contents

- Systems modeling, Clustering and virtualization:
  Scalable Computing over the Internet, Technologies for Network based systems, System models for Distributed and Grid Computing, Software environments for distributed systems and Grids.
- Virtual Machines and Virtualization of Clusters and Data Centers:
  Implementation Levels of Virtualization, Virtualization Structures/ Tools and mechanisms, Virtualization of CPU, Memory and I/O Devices, Virtual Clusters and Resource Management,Virtualization for Data Center Automation.
- Grid Platform Architecture
  Grid Computing and service Models, Architectural Design of Compute and Storage Grids,PublicGrid Platforms, Inter Grid Resource Management, Grid Security and TrustManagement.
- Grid Programming and Software Environments
  Features of Grid and Grid Platforms, Parallel & Distributed Programming Paradigms, Programming Support of Google App Engine, Programming on Amazon AWS and MicrosoftAzure, Emerging Grid Software Environments.
- Grid Resource Management and Scheduling
  Policies and Mechanisms for Resource Management Applications of Control Theory to Task Scheduling on a Grid, Stability of a Two-Level Resource Allocation Architecture.
- Coordination of Specialized Autonomic Performance:
  Managers, Resource Bundling, Scheduling Algorithms for Computing Grids, Fair Queuing,Start Time Fair Queuing, Borrowed Virtual Time, Grid Scheduling Subject to Deadlines,Scheduling MapReduce Applications Subject to Deadlines.

Resource Person

Name of the Resource Person: **Dr. T. Siva Rama Krishna**
Associate Professor
Dept. of CSE, VIEW

Program Venue: Advanced Programming Lab B-15

Faculty Coordinator

For Registration:

Mrs. M. Mamatha Laxmi
Assistant Professor
Department of Computer Science and Engineering

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

Add on Course on Grid Computing

4th Dec 2017 to 9th Dec 2017

Duration of the Course : 42 hrs

GRID COMPUTING

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Department of Computer Science and Engineering

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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.

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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, Vskp (PO)
Visakhapatnam-49

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 is intended as an introduction to computational grids, and the basic services that must be provided by the grid infrastructure, including security, resource management, and information services and data management.

Course Objectives:

1. The student will learn about the Grid environment, building software systems andcomponents that scale to millions of users in modern internet.
2. The student will learn about Grid concepts capabilities across the various Grid services.
3. The student will learn about Grid Security And Resource Management.

Course Outcomes

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

1. Able to identify Big Data and its Business Implications.
2. Able to access and Process Data on Distributed File System.

Course Contents

- Data structures in Java: Linked List, Stacks, Queues, Sets, Maps; Generics: Generic classes andType parameters, Implementing Generic Types, Generic Methods, Wrapper Classes, Concept of Serialization
- Working with Big Data: Google File System, Hadoop Distributed File System (HDFS) – Building blocks of Hadoop (Namenode, Datanode, Secondary Namenode, JobTracker, TaskTracker), Introducing and Configuring Hadoop cluster
- Writing MapReduce Programs: A Weather Dataset, Understanding Hadoop API forMap Reduce Framework (Old and New), Basic programs of Hadoop MapReduce: Driver code, Mapper code, Reducer code, RecordReader, Combiner, Partitioner
- Hadoop I/O: The Writable Interface, WritableComparable and comparators, Writable Classes:Writable wrappers for Java primitives, Text, BytesWritable, NullWritable, Object WritableandGenericWritable, Writable collections,
- Implementing a Custom Writable: Implementing aRawComparator for speed, Custom comparators
- Pig: Hadoop Programming Made EasierAdmiring the Pig Architecture, Going with the Pig Latin Application Flow, Working through theABCs of Pig Latin, Evaluating Local and Distributed Modes of Running Pig Scripts

Resource Person

Name of the Resource Person: Dr.K. Jayasri
Assoc. Professor
Dept. of CSE, LIET

Program Venue: Basic Programming Lab B-II

Faculty Coordinator

For Registration:

Ms. D. Chandrika
Assistant Professor
Department of Computer Science and Engineering

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

Add - on Course
on
Big Data Analytics

4th Dec 2017 to 9th Dec 2017

Duration of the Course : 42 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.

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PRINCIPAL
Vignan's Institute of
Engineering for Women
Peta, VSEZ (P.O.)
Visakhapatnam-530049

Mission

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Course Description and Objectives

This course is intended as an introduction to computational grids, and the basic services that must be provided by the grid infrastructure, including security, resource management, and information services and data management.

1. To Understand the Big Data Platform and its Use cases
2. ToProvide HDFS Concepts and Interfacing with HDFS

Course Outcomes

- Explore IoT enabling technologies, architectures, and standards.
- Understanding of IoT protocol stack and fundamentals of Social IoTs.
- Apply IoT knowledge to implement small-scale IoT Project.
- Identify, formulate and solve engineering problems by using Industrial IoT.

Course Content

- Introduction to IoT : Sensing, Actuation, Basics of Networking
- Basics of Networking
- Communication Protocols and Sensor Networks
- Interoperability in IoT and Arduino Programming
- Introduction to Python programming and Implementation of IoT
- SDN for IoT (contd), Data Handling and Analytics
- Fog Computing, Smart Cities and Smart Homes
- Connected Vehicles Smart Grid, Industrial IoT

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

Resource person

Name of the Resource Person: Mr Bharat Golagani,
Trainer, Brain O Vision

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
Introduction to Internet of Things (IoT)

09th to 16th December 2017

Duration of the Course : 35 hrs

Organized
by

Department of Information Technology

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
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Vignan's Institute of Engineering for Women
K.J. PO, VSEZ (P.O.),
Visakhapatnam-49

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Course Description and Objectives

This course will describe the market around the Internet of Things (IoT), the technology used to build these kinds of devices, how they communicate, how they store data, and the kinds of distributed systems needed to support them.

- Understand the definition and significance of the Internet of Things
- Discuss the architecture, operation, and business benefits of an IoT solution.
- Examine the potential business opportunities that IoT can uncover

Course Outcomes

- Explain basic principles of Python programming language.
- Express proficiency in the handling of strings and functions.
- Implement object oriented concepts.
- Identify the commonly used operations involving file systems and regular expressions.

Course Content

- Introduction to python, PDC, Input, processing and output
- Data types, expression: string assignment and Control Statement
- Conditional, Iteration, Strings and Text Files
- Design with Recursive Functions and Modules
- Object Oriented Programming
- Data modeling Examples
- Exception Handling
- Coding Simple GUI-Based Programs

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

Resource person

Name of the Resource Person: Mr . Hari Jyothula,
Assoc. Professor
Dept. of IT, VIEW

Program Venue: James Gosling Lab (C-21)

Co-ordinator

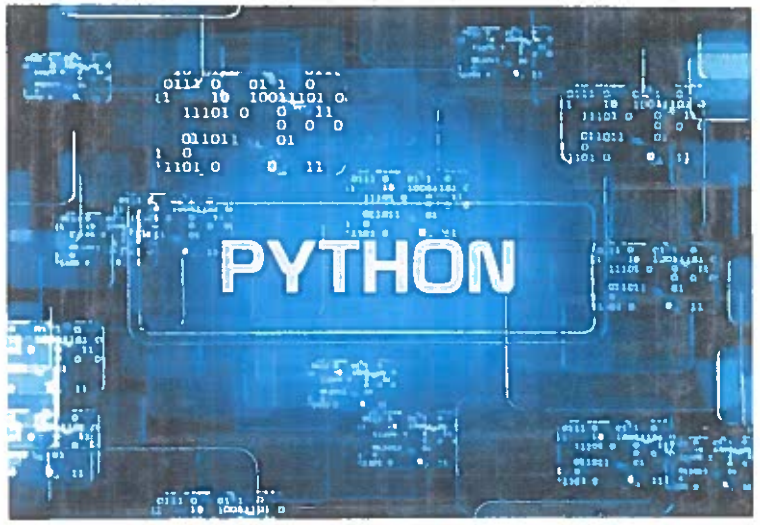
For Registration:

Mr . RVS RatnaKumar
Assistant Professor
Department of Information Technology
Mobile: 9991162578 Email Id: rvsratna143@gmail.com

Add-on Course
on
Programming Essentials on Python

05th to 12th Feb 2018

Duration of the Course : 40 hrs



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Vignan's Institute of Engineering for Women
K.L. Puram, VSEZ (P.O.),
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Course Description and Objectives

The aim of the course is to familiarize the student with general computer programming concepts like conditional execution, loops, Python programming language syntax, semantics, and the runtime environment, as well as with general coding techniques and object-oriented programming.

- Master the fundamentals of writing Python scripts.
- Write Python functions to facilitate code reuse.
- Make their code robust by handling errors and exceptions properly.

Course Outcomes

- Identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc.
- Explain the core issues of cloud computing such as security, privacy, and interoperability.
- Apply the appropriate technologies, algorithms, and approaches for the related issues.

Course Content

- Introduction Cloud Computing and characteristics of CC
- Cloud Computing Models
- Components of Cloud Computing
- Emergent Trends and Practices
- Cloud Security, Monitoring and Case Studies
- Cloud Virtualization, Abstractions and Enabling Technologies
- Application Execution Models on Clouds

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

Resource person

Name of the Resource Person: Mr. Ram Prasad Reddy,
Professor,
Dept. of CSE, VIEW

Program Venue: Dennis Ritchie Lab (C-25)

Co-ordinator

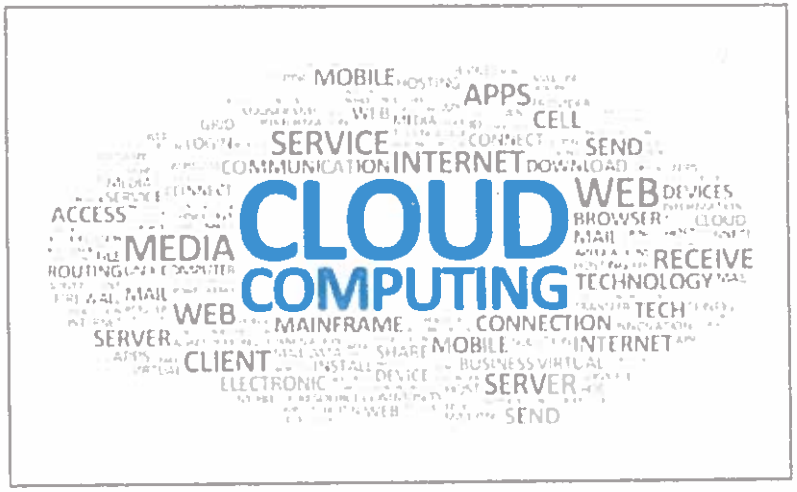
For Registration:

Mr. Ajay Kumar Badhan
Assistant Professor
Department of Information Technology
Mobile: 9967621248 Email Id: ajaykumarbadhan.view@gmail.com

Add-on Course
on
Fundamentals of Cloud Computing

17th to 24th July 2017

Duration of the Course : 35 hrs



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Course Description and Objectives

This course introduces Students to the core concepts of cloud computing. They gain the foundational knowledge required for understanding cloud computing from a business perspective as also for becoming a cloud practitioner.

- Define cloud computing and explain essential characteristics, history, the business case for cloud, and the emerging technologies enabled by cloud.

- Describe the cloud service models Describe cloud service models, cloud deployment models, and cloud infrastructure.

Course Outcomes

1. Understand the have the basic knowledge on data collection and various statistical elementary tools.

2. Have the critical thinking in the theory of probability and its applications in real life problems

Course Content

- Introduction to Statistical Tools Statistics Descriptive Inferential Statistics Variables - Classifications of Variables
- Softwares available for Statistics, Sample size calculation and power analysis
- Basic Statistics-Relative Standard Devation, Cofficient of Variation Basic Statistics-Confidence limits of a Measurement
- Comparing two sets of data using many samples at different analytic levels
- Error or uncertainty in the regression line Conflicts of Interest

Resource Person

Name of the Resource Person: : Dr. A. Sridhar,
Associate Professor, GITAM

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

Program Venue: Seminar Hall

Coordinator

For Registration: Mrs.M.Sowjanya
Assistant Professor
Department of Master of Business Administration
Mobile No:9160590143 Email ID :mutyala.sowjanya@gmail.com

Add-on Course on STASTISTICAL TOOLS

6th Nov 2017 to 28th Nov 2017

Duration of the Course : 40 hrs

Organized by

Department of Master of Business Administration

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Kapparada, VSEZ (P.O.),
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About the Department

The MBA department has been established in the year 2009 with intake of 120 students. It offers two years' post- graduation pro¬gramme 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 man¬ager 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 innova¬tive which is the need of this global business era. Vignan's Insti¬tute of engineering for Women, is one of the premier institu¬tions, 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

A course dealing with statistical concepts including measures of central tendency and dispersion, probability distributions, the Central Limit Theorem, Sampling, Estimation, Hypothesis testing, Analysis of Variance, Correlation and Regression analysis, Multiple Regression and Statistical Forecasting.

1. To enable the use of statistical, graphical and algebraic techniques wherever relevant.

2. To have a proper understanding of Statistical applications in Economics and Management.

Course Outcomes

- This course helps students to work with well-known accounting software i.e. Tally. ERP.
- Develop the students use the Tally software, that helps to prepare Accounting, Payroll, Billing, Sales and Profit Analysis, Auditing Banking Inventory, Taxation such as GST, VAT, TDS etc

Course Content

- Fundamentals of Accounting.
- Maintaining Chart of Accounts in Tally ERP.
- Creating accounting masters
- Maintaining Stock Keeping Units (SKU).
- Recording Day-to-Day Transactions in Tally ERP 9.
- Accounts Receivable
- Payable Management.
- GST and Payrolls in Tally

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

Resource Person

Name of the Resource Person: : Mr. P. Prabhakar, Programmer
Data Pro

Program Venue: C - LAB

Coordinator

For Registration:
Dr. S. Ramesh
Head of the Department
Department of Master of Business Administration
Mobile: 9652279070 Email- drrameshsusarla@gmail.com

Add on Course on Tally ERP

2nd Jan 2018 to 28th Feb 2018

Duration of the Course : 40 hrs

Organized by

Department of Master of Business Administration

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Kapu VSEZ (P.O.),
Visakhapatnam-4

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Course Description and Objectives

Tally' is a comprehensive ERP software that goes far beyond the basic functionalities of finance and accounts. To impart knowledge regarding concepts of Financial Accounting. Tally is an accounting package, which is used for learning to maintain accounts. Where you will get to understand the software in-depth and learn concepts related to inventory management, GST and TDS calculation, modifying company details, etc.

• It helps records all types of accounting that include invoicing, receipt notes, inventory management, sale records, credit note, etc.

• The software helps record the complex book keeping in a simple way so that everyone can handle it easily.

3. Diagnose and repair all major problems regarding hardware, PC peripheral devices.
4. Apply the basic knowledge of TCP/IP networks work group, internet and intranet in real life.

Course Content

- **Introduction to basic electronics**, subassembly of PC Subassembly of Motherboard, types of memory, familiarization with I/O cards, ports, connectors & cable and their identification.
- **Hardware Device Drivers & Application Software**, System Maintenance Tools, Important commands, troubleshooting of PC.
- **Communication over the network,** Application layer functionality and protocols, **Addressing the Network** – IPv4, Ethernet, Planning and Cabling, Networks, Configuring and Testing Your Network.
- **Introduction to Dynamic Routing Protocols**, Distance Vector Routing Protocols, RIP Version 1, **The Routing Table** : A Closer Look, EIGRP, Link-State Routing Protocols, LAN Design, Basic Switch Concepts and Configuration, VLANs, Inter-VLAN Routing.
- **Domain name Server (DNS):** Installing DNS, Configuring DNS, Maintaining and troubleshooting DNS, Configuring Advanced DNS Server parameters, Configuring DHCP to Support DNS.
- **User management:** Understanding User Accounts and Groups, Assigning Rights on User & Group, Authentication, Authorization and Auditing, **Troubleshooting Domain User Accounts and Groups**, Managing user profiles, Setting up disk Quotas, Group Policies management.

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

Venue : B-14, VIEW

Resource Person
Mr. Bharat Golagani
Trainer, Brain-O-Vision

Course Co-ordinator
Dr. R. Hanumantha Rao
Assoc.,
Department of B S & H

Add-on Course
on
BASICS OF COMPUTER HARDWARE AND NETWORKING

01st March 2018 to 09th March 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

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About the Course

Course on Computer Hardware and Networking explores each and every detail of computer hardware starting from a simple looking mouse to highly complicated motherboard and networking. This course is designed to provide extensive knowledge and experience in computer hardware & networking field. This course will build student's existing user-level knowledge and experience with computer software, hardware and Networking to present fundamental skills and concepts that will use on the job.

Objectives

After studying this lesson, students will be able to:

1. To acquire the knowledge on hardware and networking devices.
2. To be aware of knowledge on the science of hardware and networking
3. To train the officials to acquire basic knowledge in computer hardware and peripherals for installation, PC assembly, trouble shooting and maintenance including system management and its backup.
4. To undertake disaster prevention, a basic knowledge of TCP/IP networks work group, internet and intranet.

Outcomes

The student shall be able to

1. Learn the proper techniques of maintenance of hardware and networking devices
2. Study the science of hardware and networking

PRINCIPAL
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K.J.Peta, Vill. & P.O.,
Visakhapatnam-49.

- Identify the central points and uniqueness of Indian culture.
- Explain the points of diversity and underlying unity in it.
- Trace the influence and significance of geographical features on Indian culture.

Course Content :

- **Indian Culture:** Introduction to Characteristics of Indian culture, Significance of Geography on Indian Culture.
- **Religion and Philosophy in India:** Ancient Period: Pre-Vedic and Vedic Religion, Buddhism and Jainism.
- **Indian Languages and Literature:** Evolution of script and languages in India: Harappan Script and Brahmi Script.
- **A Brief History of Indian Arts and Architecture:** Indian Art & Architecture: Gandhara School and Mathura School of Art; Hindu Temple Architecture.
- **Performing Arts:** Divisions of Indian classical music: Hindustani and Carnatic, **Dances of India.**
- **Spread of Indian Culture Abroad:** Causes, Significance and Modes of Cultural Exchange - Through Traders, Teachers, Emissaries, Missionaries and Gypsies.

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

Venue : A-42, VIEW

Resource Person
Ms. K. Lavanya
Asst. Prof., VIEW

Course Co-ordinator
Mrs. P. Vara Lakshmi
Asst Prof.,
Department of B S & H

Add-on Course
on

INDIAN SPIRITUAL AND CULTURAL HERITAGE

01st March 2018 to 09th March 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)
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E-mail: viewvizag@yahoo.com website : vignanview.org

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About the Course

Course on Computer ***Indian Spiritual and Cultural Heritage*** explores various facets of Indian culture and heritage. This course is designed to provide extensive knowledge on the concept and importance of Indian culture through various ages of India. Through this course student can possess knowledge about how the Indian spiritual and cultural heritage spread all over the world and the history of Indian cultural heritage.

Objectives

After studying this lesson, students will be able to:

1. To understand the concept and meaning of culture.
2. To be aware of establishment of the relationship between culture and civilization.
3. To discuss the role and impact of culture in human life.
4. To establish the link between culture and heritage.

Outcomes

will be able to

- Describe the distinctive features of Indian culture.

Course Content :

- Classify lathe, Capstan and turret lathes, Constructional features of capstan and turret lathe, Tool layout for lathe machine and solve simple numerical.
- Shaping and Planning machines, Drilling Machines & Milling Machines.
- Grinding Machines, Broaching, Lapping and Honing Machines.
- The fundamentals of theory of metal cutting, Idea about the measurement of tool tip temperature.
- Non-traditional machining processes (NTM).

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

Venue : A-42, VIEW

Resource Person

Dr. Ch. Rama Krishna
Assoc. Prof., VIEW

Course Co-ordinator
Ms. T.S. Priyadarshini
Asst. Professor, Department of B S & H

Add on Course on MACHINE TOOLS

08th August 2017 to 16th August 2017

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)
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About the Course & Objects

To revise the fundamentals of Manufacturing Process I and hence educate the students about the scope of the subject.

To train the students in the metal cutting domain so as to equip them with adequate knowledge about the various processes like turning, shaping, planning, drilling, milling and grinding.

To emphasize upon the prominent theories, concepts and constructional features of machines related to them.

Outcomes

- Classify various metals cutting machines like lathe Describe various driving mechanisms of lathe.
- Discuss the constructional features and the terminologies related to grinding, broaching and honing machines.

- Operate various electrical machines.
- Understand the concepts of semiconductor devices and their operation.

Course Content :

- FUNDAMENTALS OF DC CIRCUITS: Circuit concepts, Concepts of network, Active and passive elements, Voltage and current sources, Concept of linearity and linear network.
- FUNDAMENTALS OF A.C. CIRCUITS: Generation of A.C. voltage - Frequency, Average value, R.M.S. value, Form factor, Peak factor for sinusoidal only.
- FUNDAMENTALS OF ELECTROMAGNETISM: Concepts of Magneto motive force, Reluctance, Flux and flux density, Concept of self Inductance and mutual Inductance, Coefficient of coupling
- DC MACHINES: Constructional details of a D.C. Machine, D.C. Generator, Principle of operation, EMF equation, Types of D.C. generators.
- A.C MACHINES: Principle of operation of three phase induction motors, Slip ring and squirrel cage motors, Torque equation, Constructional details of synchronous machine.
- SEMICONDUCTOR DEVICES: Classification of solids based on energy band theory, Intrinsic and Extrinsic semiconductors, P-type and N-type semiconductors.

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

Venue : B-14, VIEW

Resource Person

Dr. P.A.Nageswara Rao

Professor, VIEW

Course Co-ordinator

Dr. G.V.Satyanarayana

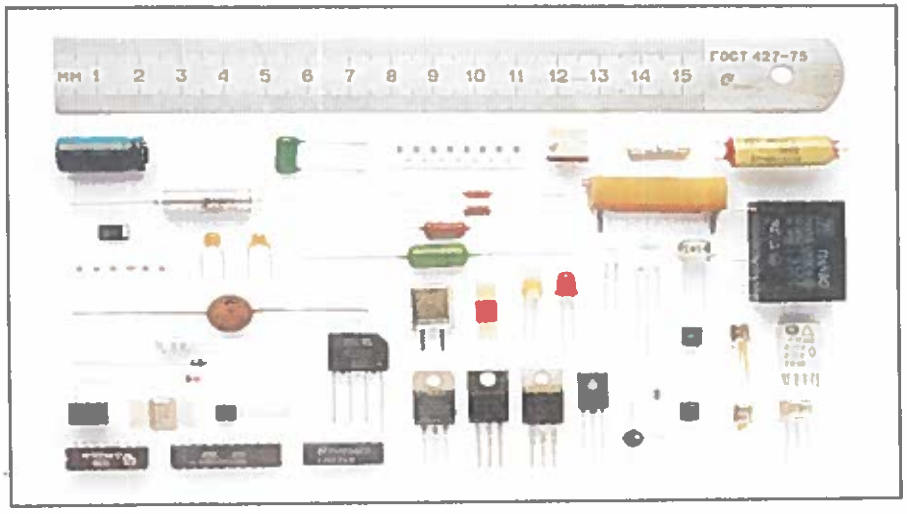
Assoc. Prof., Department of B S & H

Add-on Course on

Basics of Electrical and Electronics Engineering

17th Jan 2018 to 23rd Jan 2018

Duration of the Course : 36 hrs



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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.

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PRINCIPAL
Vignan's Institute of
Engineering for Women
Visakhapatnam-49.

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About the Course

This course provides an in-sight into the functioning of basic electrical components like resistor, inductor and capacitor. It deals with the constructional and operational details of both D.C & A.C machines. It also deals with the basic electronic components like P-N Junction Diode, Zener diode, Transistor and their characteristics.

Objectives

After studying this lesson, students will be able to:

- Distinguish between linear and nonlinear elements by looking at VI characteristics.
- Develop a simple loop generator.
- Design a voltage regulator using Zener diode.
- Design a half wave rectifier using PN junction diode.

Outcomes

- Understand the notation and usage of components in electric circuits.
- Analyze AC (single and three phase) and DC, AC circuits using different methods and laws.

Course Content :

- Learn in-demand leadership skills necessary to manage unconscious bias in your workplace.
- Develop practical communication skills to mend divides and build a more tolerant and inclusive world.
- understand the impact of racism and strategies and focusing on key concepts and behaviors, and skills you can develop to live anti-racist values.
- Understand what gender equity, recognize and address gender inequity in the workplace.
- Identify actions you can take to address racial inequities in your workplace and community.
- Explore what anti-racism and intersectionality mean and how they play a role in workplaces and society.

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

Venue : B-46, VIEW

Resource Person

Dr.V. Radha Krishna Murthy

Trainer, JCI

Course Co-ordinator

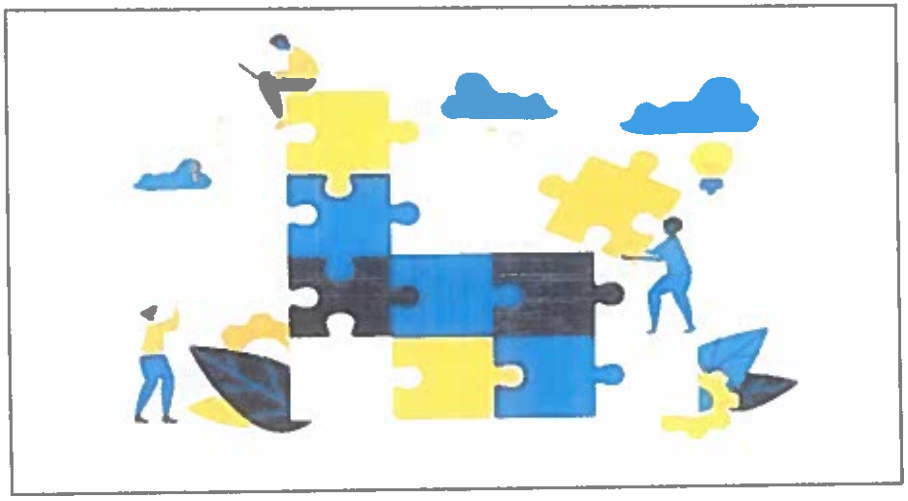
Mr. S. Bala Krishna

Asst. Professor, Department of B S & H

Add-on Course
on
RACE, GENDER & WORKPLACE EQUITY

17th Jan 2018 to 23rd Jan 2018

Duration of the Course : 36 hrs



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BASIC SCIENCES & HUMANITIES

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About the Course

The unprecedented challenges posed by the pandemic and the heightened awareness around racial injustices have challenged organizations and teams to work together in new ways to create inclusive workplaces where employees feel trusted, valued, and psychologically safe.

Objectives :

Understand the nature of Emotional Tax and its impact on underrepresented racial and ethnic groups, and identify actions to take to address racial inequities in your workplace and community.

Understand gender equity, why it matters, and how to recognize and address gender equities in the workplace.

Outcome

- Develop an understanding of what unconscious bias is and its impact on decision-making and develop skills to recognize and take action to mitigate it.

PRINCIPAL
Vignan's Institute of
Engineering
Visakhapatnam-49.

Course Content :

- **Education:** Education as the 'magic' intervention, Learning vs. schooling.
- **Adolescence & Vulnerability:** Female genital cutting/mutilation, Vulnerability to HIV/AIDS.
- **Reproductive Health and Rights:** Early marriage and early childbirth Reproductive health, sexuality, maternity, contraception.
- **Women in War and Refugee Situations:** The nature of current wars, forced migration, rape as a weapon of war, natural disasters.
- **Women's Quest to Escape Poverty:** Access to money and work, globalization and its effects on women's work, sex trafficking and sex work.
- **Aging and the End of Life:** Aging, demography, social exclusion and loss, women as caregivers.

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

Venue : A-47, VIEW

Resource Person

Dr. Siva Satyanarayana J.

Assoc. Prof., JCI

Course Co-ordinator

Mr. K. Ramesh

Asst. Professor, Department of B S & H

Add-on Course
on
INTERNATIONAL WOMEN'S HEALTH AND HUMAN RIGHT

17th Jan 2018 to 23rd Jan 2018

Duration of the Course : 36 hrs

Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

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KAPUJAGGARAJU PETA VSEZ(POST) VISAKHAPATNAM-530049

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PRINCIPAL
Vignan Institute of Engineering for Women
K.J.Peta, Vepagunta (P.O.)
Visakhapatnam-530 049

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About the Course

This self-paced course provides an overview of women's health and human rights, beginning in infancy and childhood, then moving through adolescence, reproductive years and aging.

Objectives :

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

Consider the economic, social, political and human rights factors, and the challenges women face in maintaining health and managing their lives in the face of societal pressures and obstacles.

Outcomes

- An interest in health and social justice,willingness to hear different points of view, and a commitment to positive social change.

- Women's work as paid work influenced family life, power relationships within the family and theability for women to organize politically.

Course Content

- Account for the rise of the women's history as an academic field
- Institutions and practices governed gender dynamics
- How the ideologies of separate spheres and domesticity originated
- progresses through the emergence of an industrial era, that will help to follow women from the home into the workplace
- Influenced family life, power relationships within the family, and the ability for women to organize.
- Examine the customs, cultures, and ideologies that governed women's lives in the early 19th Century.

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

Venue : B-47, VIEW

Resource Person

Dr. N.B.Harsha Vardhan Reddy
Soft Skills Trainar, JCI

Course Co-ordinator :
Dr. K. Venkata Prasad
Assoc. Professor, Department of B S & H

Add on Course
on
SEEKING WOMEN'S RIGHT

17th Jan 2018 to 23rd Jan 2018

Duration of the Course : 36 hrs

Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
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About the Course

We will learn the ways that women struggled to loosen the constraints of family by proclaiming that they, like men, possessed individual rights.

Objectives

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

- Relationship between race, class, and gender has impacted the kinds of work that different women do.
- The ways in which women shaped and participated in the revolution, and what it meant for women.

Outcomes

The student shall be able to

- How women began their involvement in political activity and moral reform campaigns and how the rise of an independent movement for women's rights in the modern era came about.

Outcomes

The student shall be able to

- Explain what a good technical engineering report is and what they are used for.
- Evaluate what a good report looks like.
- Use a technical report to communicate information.

Course Content

- Defining the Features of Technical Writing Principles and Strategies of Technical Report Knowing Your Audience, Purpose and Length of Report
- Format of a technical report
- Writing styles & techniques
- Style of Writing : Writing Clear Sentences · Removing Jargon, Redundancy & Wordiness
- Types of technical report
- Presentation

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

Venue : B-46, VIEW.

Resource Person

Dr. T. Radha Krishna Murthy

Professor, VIEW

Course Co-ordinator

Dr. B. Chandra Sekhar

Assoc. Professor, Department of B S & H

Add-on Course

on

TECHNICAL REPORT WRITING FOR ENGINEERS

17th Jan 2018 to 23rd Jan 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, emotionalbalance 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 aims to present a comprehensive overview of the essential elements of effective technical report writing and help students develop the practical skills required to write successfully, for an internal or external audience. It will teach the fundamental skills for technical report writing.Effective report writing, the exchange of information, views, opinions, and decisions between people at all levels, internally and externally, make a vital contribution to organisational success.

Objectives

- Design and structure a document by analyzing and selecting the right information
- Write clearly and in the correct style
- Use correct language and grammar

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Visakhapatnam-49.

Outcomes

The student shall be able to

- Students will be able to identify the scope and significance of Marketing In Domain Industry.
- Students will be able to coordinate the various marketing environment variables and interpret them for designing marketing strategy for business firms.

Course Content

- IMarketing Management concepts, customer value and satisfaction, value chain, segmentation target positioning, corporate strategy concept.
- Strategic business units, marketing environment, significance of macro environmental factors to marketing.
- Market research, types of research and research barriers.
- Dealing with competitors, Porter's competitive strategy, Marketing strategy.
- Product life cycle, product levels, types of brands, corporate brand and product branding.

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K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Venue : B-14, VIEW.

Resource Person
Mr. P. Praveen Kumar
Asst. Prof. VIEW

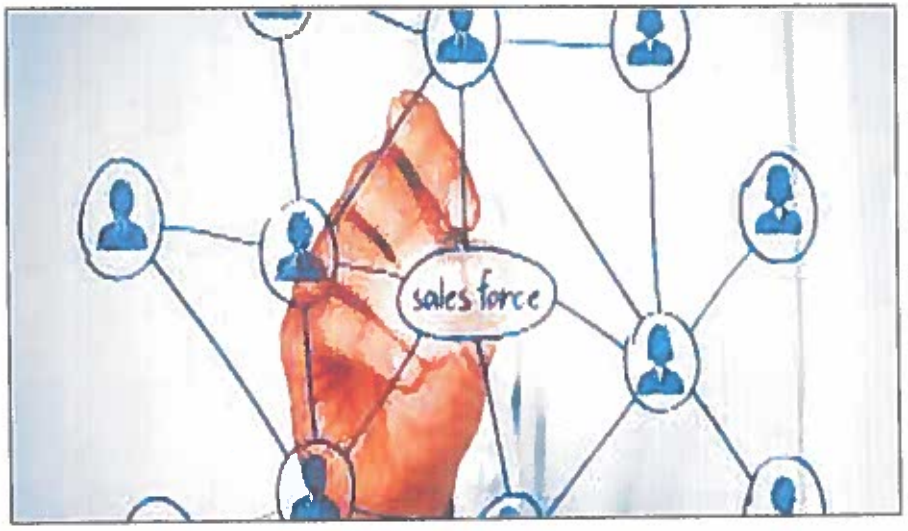
Course Co-ordinator
Dr. V. R. S. S. Srikanth
Assoc. Professor, Department of B S & H

Add on Course on

BASICS OF SALES FORCE

17th Jan 2018 to 23rd Jan 2018

Duration of the Course : 36 hrs



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About the Course & Objects

Marketing management course enables a student to understand the fundamentals of marketing concept and the role marketing plays in business. This course enables a student to understand the 'Marketing mix' elements and the strategies and principles underlying the modern marketing practices. Students should be able to demonstrate their comprehension of marketing concepts and knowledge by applying those in their written exams, case studies discussions, presentations and projects. The assignments/projects would enable students to apply the marketing concepts and marketing mix elements practically and illustrate those through a written report and presentation. The course methodology encourages students to explore for themselves the role of a marketing manager and the boundaries of marketing.

1. To outline key marketing concepts and its application to different markets
2. To identify factors and processes essential for designing marketing strategy
3 To analyze and examine the implementation of marketing concepts and strategy to firms

Outcomes

The student shall be able to

- Use the most demandable programming languages.
- Use the skills required for software programmers.
- Use the best programming language for designing software.

Course Content

- Introduction to programming languages, eligibility criteria to learn software programming languages
- Programming languages for software development
- Introduction to demandable programming languages like C, C++
- Introduction to demandable programming languages like Java, SQL, Python
- Skills required for software computer programmers
- Programming languages for designing software

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Visakhapatnam-49.

Venue : B-14, VIEW.

Resource Person

Mr. Ganesh Nagu Doddi

CEO, Brain-O-Vision

Course Co-ordinator

Mr. K.V.V.Ganeswara Rao

Asst. Professor, Department of B S & H

Add on Course

on

AWARENESS ON DEMANDABLE PROGRAMMING LANGUAGES

08th Aug 2017 to 16th Aug 2017

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)

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About the Course

Programming languages are programmers' most basic tools. With appropriate programming languages one can drastically reduce the cost of building new applications and maintaining existing ones. There have been many advances in programming languages technology in traditional programming paradigms such as functional, logic and object-oriented programming, as well as the development of new paradigms such as aspect-oriented programming. Therefore, awareness on programming languages is an endless activity and the core of computer science. The aim of this course is to provide basic knowledge on topics concerned with programming languages.

Objectives

1. To impart the knowledge of the programming languages.
2. To provide an awareness on the programming languages on demand.