ADDON COURSES (2019-20) – Brochures

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Course Outcomes

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

- Know about the symbol naming conventions; usage of multiple symbol libraries, hydraulic and P&ID symbols; generate PLC layout modules, insert PLC modules, and organize PLC database files.
- know how to bring components into panel for layout; to generate and update customizable reports, and use folders to organize drawings.

Course Content

- Basic Workflow, & Project Basics
- Schematic Wiring
- Schematic Editing& Schematic Components
- Custom Components & Custom Data
- Point to point wiring Tool
- Panel Layouts

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

Resource Person

Name of the Resource Person: Mr. N. Kiran,
Assistant Prof.
ANITS

Program Venue: Electrial Simulation Lab (B04)

Co-ordinator

For Registration:

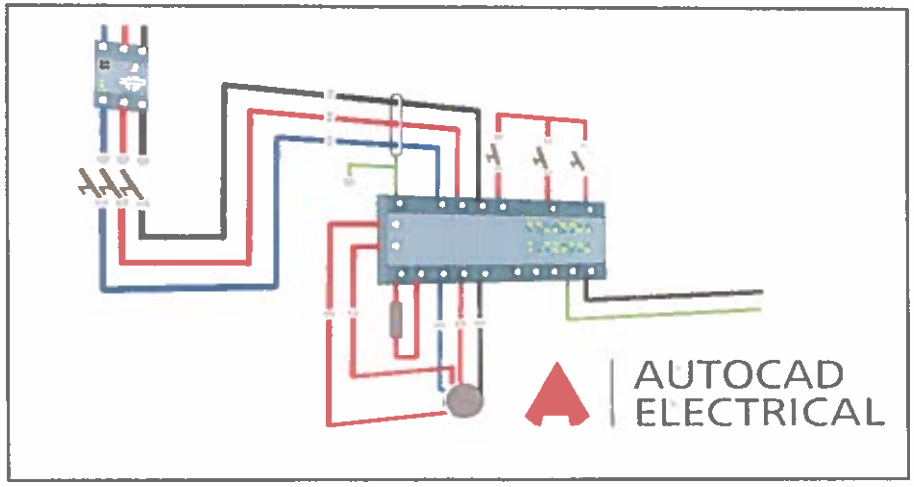
Ms.T.Sushma
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 7093868134 Email Id: sushmatirumularaju@gmail.com

Add-on Course on

Electrical AutoCAD

18th Sep 2019 to 25th Sep 2019

Duration of the Course : 32 hrs



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

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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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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Course Description and Objectives

- Describe the You will create schematic drawings such as ladder logic and point to point, panel drawings, and PLC-I/O circuits using automated commands for symbol insertion, component tagging, wire numbering, and drawing modification.
- Know methods of customizing AutoCAD Electrical symbols, circuits, and databases. Other topics covered include title block linking, reporting tools, templates, and project files.

Course Outcomes

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

- Able to identify different electronics components
- Able to design the circuits on bread board.
- Able to do use multi meter and able to do soldering

Course Content

- Introduction to Electronics
- Introduction to Breadboard, Resistors
- Introduction to Capacitors and various types
- Introduction to Inductors and various types
- Basic Electronics - Transformers Types of Transformers
- Basic Electronics - Transistors
- LEDoperation& multimeter and its importance in electronics engineering

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K.J. Peta, V.S.Z. (P.O.),
Visakhapatnam-49

Resource Person

Name of the Resource Person: Dr. P. Ravi shankar,
Associate Prof., Dept. of EEE, VIIT

Program Venue: Electrical circuits lab (B03)

Co-ordinator

For Registration:

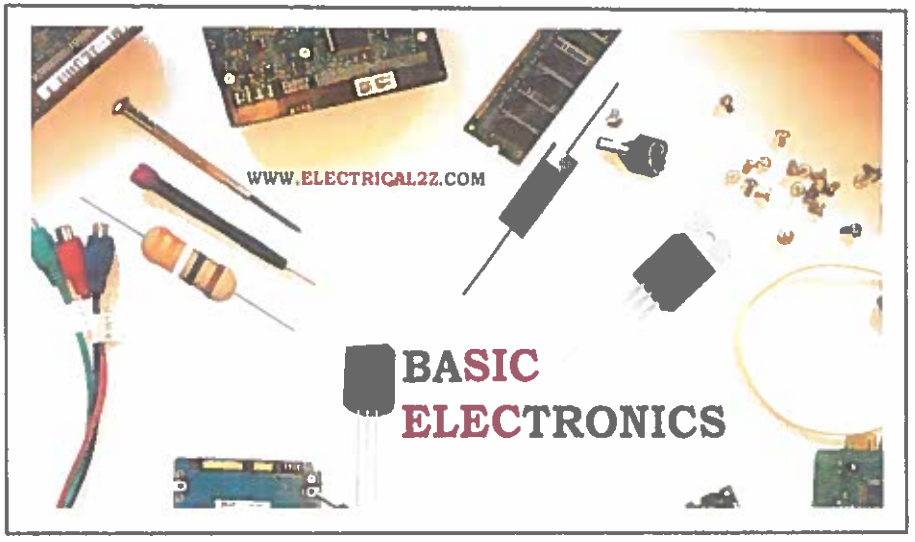
Mr. K. Chiranjeevi
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9959482480

Add on Course on

Basic Electronics Home Laboratory

18th Sep 2019 to 25th Sep 2019

Duration of the Course : 32 hrs



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Course Description and Objectives

This course provides the student with the fundamental skills to understand the basic of semiconductor and components like diode, transistor, FET, MOSFET and operational amplifier.

- Identify different electronics components.
- Design the circuit on Bread board.
- Soldering tools & components.

Course Outcomes

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

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

Course Content

- Switched mode power conversion – Overview
- Non-isolated converters
- Isolated converters
- Modeling of converters
- Controller basics
- Controller design principles.
- Modelling of PID controller

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

Resource Person

Name of the Resource Person: Dr. P. Devendra
Associate Professor, G.V.P.W,

Program Venue: Power Electronics lab (B05)

Co-ordinator

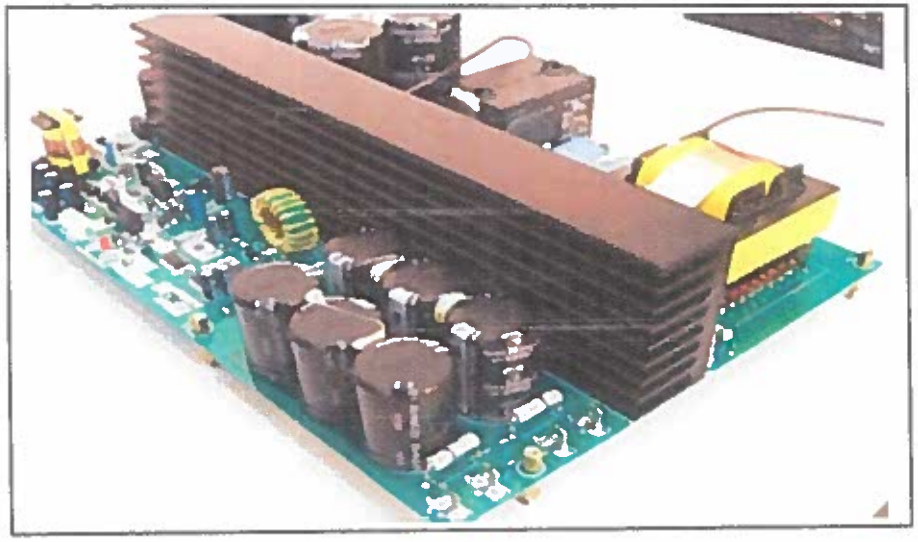
For Registration:

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
Modelling of
Switched Mode Power Conversion

15th July 2019 to 22th July 2019

Duration of the Course : 40 hrs



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Course Description and Objectives

➢This course introduces the basic concepts of switched-mode converter circuits for controlling and converting electrical power with high efficiency.

➢Principles of converter circuit analysis are introduced, and are developed for finding the steady state voltages, current, and efficiency of power converters.

Course Outcomes

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

- Implement Arduino Language For Real Time Process.
- Explore the code and online resources for extending knowledge about the capabilities of the Arduino microcontroller

Course Content

- Introduction to embedded system
- Getting Started with Arduino
- Review of Basic Concepts
- Arduino i/o Functions
- Arduino Time & Arduino Displays
- Arduino Secondary Integrations & Giving Input to the controller
- Arduino Communications

Resource Person

Name of the Resource Person: Mr.P.Trinadha Naga Satish
MT, Steel Plant,
Visakhapatnam

Program Venue: Electrical circuits lab (B-03)

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

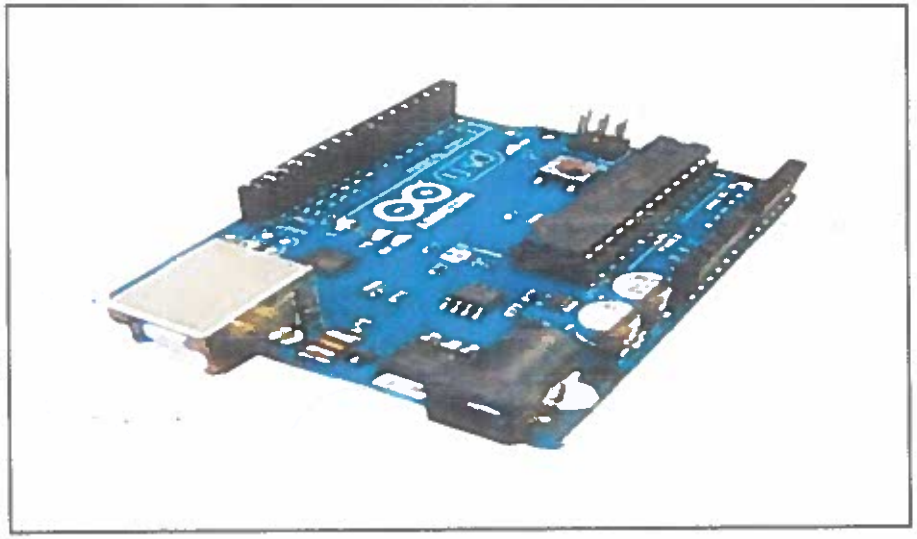
Co-ordinator

For Registration:
Mr.V.Avinash
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9985859469

Add-on Course on Programino IDE for Arduino

15th July 2019 to 22nd July 2019

Duration of the Course : 40 hrs



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Course Description and Objectives

- This course is intended for enthusiastic students or hobbyists. With Arduino, one can get to know the basics of micro-controllers and sensors very quickly and can start building prototype with very little investment.
- This course is intended to make you comfortable in getting started with Arduino.

Course Outcomes

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

- Effectively write basic and intermediate level PLC programs.
- Monitor variable values in real time in program execution.
- Able to Convert A/D in PLC

Course Content

- Introduction to the PLCs and their I/O modules.
- PLC Programming PLC Programming-1:Input instructions, outputs, operational procedures
- PLC Programming PLC Programming-2:
  Digital logic gates, programming in the Boolean algebra system, conversion examples. Ladder diagrams and sequence listings, ladder diagram construction.
- Programmable Timers and Counters:
- Program Control Instructions:
- Other Instructions
- Applications:
  Control of water level indicator – Alarm monitor - Conveyor belt for control – Parking garage – Ladder diagram for process control – Vending controller.

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

Resource Person

Name of the Resource Person: Dr.Arundhati Baratam,
Professor, Dept.of EEE, VIIT,
Dhuvvada.

Program Venue: Electrical Simulation lab (B04)

Co-ordinator

For Registration:

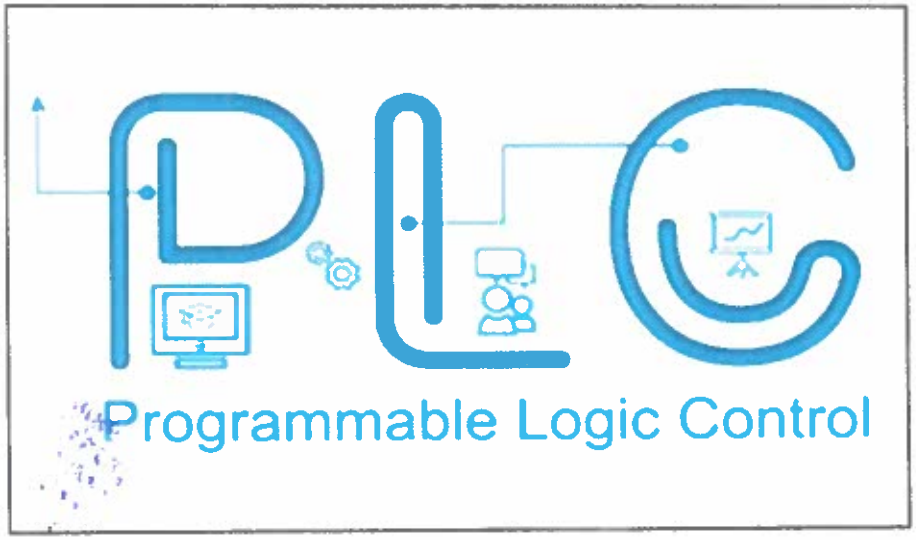
Mr. P. V. Sarath
Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 7780374869

Add on Course on

Industrial based PLC Programming

19th Dec 2019 to 27th Dec 2019

Duration of the Course : 40 hrs



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Course Description and Objectives

➢A programmable logic controller (PLC) is an electronic device used in many industries to monitor and control building systems and production processes. Unlike PCs and Smartphones, which are designed to perform any number of roles, a PLC is designed to perform a single set of tasks, except under real-time constraints and with superior reliability and performance.

1. To understand different PLC registers and their description.
2. To have knowledge on data handling functions of PLC.
3. To know how to handle analog signals and converting of A/D in PLC.

Course Outcomes

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

- Understand the necessity of advanced tools to their research and design problem.
- Hands on experience will gained on software (PSIM).

Course Content

- Introduction to PSIM Software
- Power electronics modelling DC-DC converter
- PWM generator with A/D converter in captious mode
- Introduction to power forge software
- Introduction to electromagnetics
- Power systems modelling of transmission line
- Transient stability analysis

PRINCIPAL
Vignan's Institute of Engineering for Women
Kapujaggarajupeta, VSKZ (P.O.),
Visakhapatnam-49

Resource Person

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

Program Venue: Electrical Simulation lab (B-04)

Co-ordinator

For Registration:

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

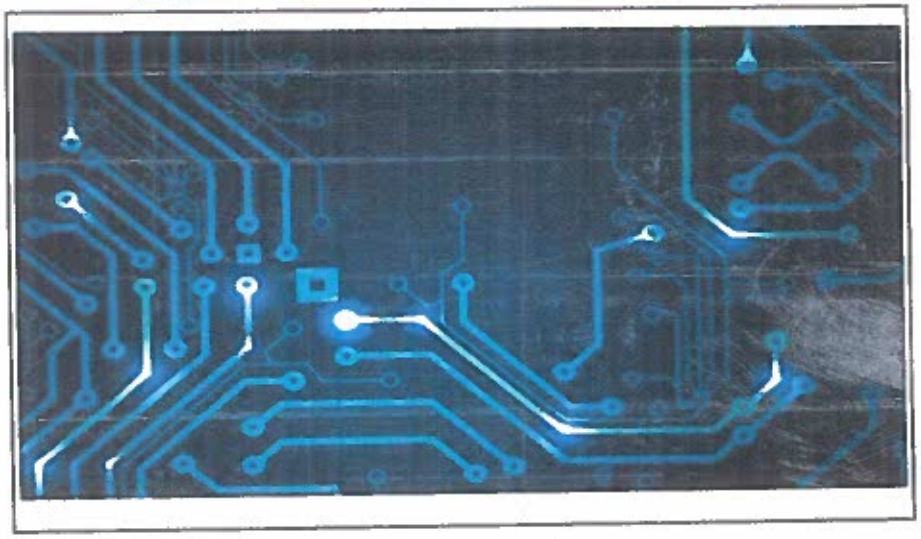
Add on Course

on

Advanced simulation tools for power electronics Electromagnectics and power systems

19th Dec 2019 to 27th Dec 2019

Duration of the Course : 40 hrs



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Course Description and Objectives

This course presents interactive power electronics and power systems educational tools. These interactive tools make use of the benefits of Java language to provide a dynamic and interactive approach to simulating steady-state ideal rectifiers and other power system (uncontrolled and controlled; single-phase and three-phase).

➢To introduce the use of Advanced simulation tools of electrical Engineers so that research and publications are made easy.

➢To model and evaluate the test examples, to thereby enables the participants to identify the use of these tools for their research and design problems.

Course Outcomes

1. Able to understand to fundamental tools of AutoCAD

2. Able to apply tools for Creating Simple Objects

Course Content

- 1.The Command Window ,The Mouse ,New Drawings Create Your Own Drawing, Template File, Units, Model Scale
- 2.Overlapping Objects Geometry The User Coordinate System Grid Display Circles, Polylines and Rectangles Hatches and Fills
- 3.Simple 2D Geometries using 2D Commands
- 4.3D Commands: Extrude, loft, Fillet,Modeling of 3D Objects
- 5. Creation of 3D objects using 3D commands

Resource person

Name of the Resource Person: Mr. Venna Vijay Kumar,
Coordinator, APSSDC

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

Program Venue: Project Lab : C-27

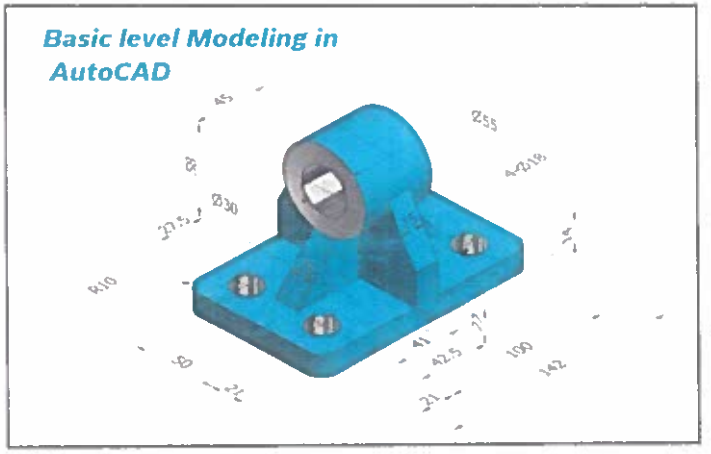
Co-ordinator

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

Add-on Course on Basic level Modeling in AutoCAD

27th Jan 2020 to 31st Jan 2020

Duration of the Course : 35 hrs



Organized by

Department of Mechanical Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(APPROVED BY AICTE & AFFILIATED TO JNTUK)
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

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

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

Mission

M1:To empower women engineers through innovative teaching-learning practices.
M2:To encourage for higher education and research with well-equipped laboratories.
M3:To promote entrepreneurship through creativity and innovation.
M4:To promote environmental sustainability and inculcate ethical, emotional and social consciousness.

About the Department

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

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

Vision

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

Mission

M1: Import quality education and reliable training to nurture globally competitive mechanical engineers.
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M4: To empower the students with technical knowledge in Mechanical Engineering for pursuing higher education for becoming entrepreneurs/employees of prominent companies and also motivating them towards research to meet the societal needs

Course Description and Objectives

This course is designed for beginner and intermediate users. User without any prior knowledge of software can easily learn the course. The course is compatible with almost all the versions of AutoCAD.

Course is properly divided into sections. Each tool is taught with proper examples along with shortcut keys and commands. Projects at the end of the course use all the tools and commands which are learnt in previous lectures.

1. To learn about fundamental commands of AutoCAD.

2. To explain the steps for creating 2D &3D Models.

Course Outcomes

1. Able to understand various types of advanced deformation techniques.

2. Able to apply various tools of advanced deformation techniques of different metal alloys.

Course Content

- Deformation techniques
- Light weight metals and alloys
- Strengthening Mechanisms
- Ultrafine grains (UFGs)
- Severe plastic deformation (SPD) Techniques
- Equal channel angular extrusion (ECAE)
- Structural and mechanical variations in processed materials
- Wear Test

Resource person

Name of the Resource Person: Dr. G. Swami Naidu,
Professor, JNTUK-UCE

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

Program Venue: Online

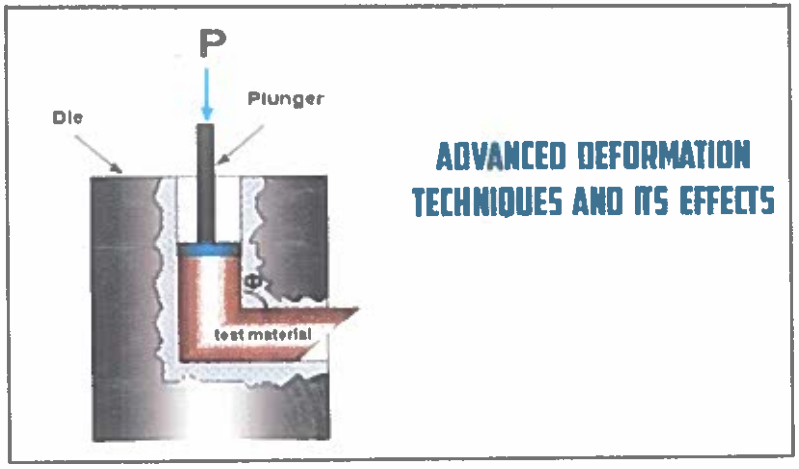
Co-ordinator

For Registration:
Mr. Ch. Suresh
Assistant Professor
Department of mechanical Engineering
Mobile:7013754680 Email Id: chitturisuresh007@gmail.com

Value Added Course on Advanced deformation techniques and its effects

4th May 2020 to 24th May 2020

Duration of the Course : 42 hrs



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Course Description and Objectives

A high amount of strain imposed on bulk materials in Equal channel angular extrusion (ECAE) 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. The structural and mechanical behavior of a material subjected to ECAE highly depends on its geometrical and operational parameters.

1. To understand the various types of advanced deformation techniques.

2.To assess the evaluation of light weight alloys by advanced deformation techniques.

Course Outcomes

1. Able to understand to fundamental tools of CATIA V6

2. Able to apply tools for Creating Automobile parts

Course Content

- Fundamentals of sketching toll commands
- Creation of Part Drawing of automobile parts by using part modeling
- Assembly of Parts of Automobile by using CATIA V6
- Sheet metal operations by using CATIA V6
- Surfacing workbenches of CATIAV6
- Drafting workbenches of CATIAV6

Resource person

Name of the Resource Person: Kolagadi Jaya Durga Rani,
Coordinator, APSSDC

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Visakhapatnam-49

Program Venue: Project Lab : C-27

Co-ordinator

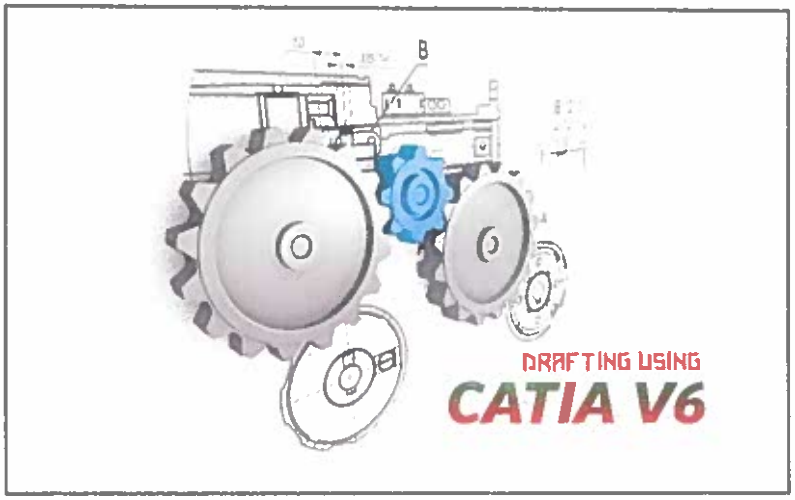
For Registration:
Mrs. U. Ramya Sri
Assistant Professor
Department of mechanical Engineering
Mobile:9866933008 Email Id: ramyamechanical@gmail.com

Add-on Course on

Drafting using CATIA V6

9th Sep 2019 to 14th Sep 2019

Duration of the Course : 36 hrs



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Course Description and Objectives

CATIA V6, developed by Dassault Systemes, France, is a completely re-engineered, next-generation family of CAD/CAM/CAE software solutions for Product Lifecycle Management. CATIA V6 delivers innovative technologies for maximum productivity and creativity through its exceptionally easy-to-use and state-of-the-art user interface, from inception to the final product. CATIA V6 reduces the learning curve, as it allows the flexibility of using feature-based and parametric designs.

1. To learn about fundamental commands of CATIA V6.

2.To explain the steps for creating 2D &3D Models.

Course Outcomes

Students will be able to

1. Apply programming to solve matrix addition and multiplication problems and searching and sorting problems.
2. Apply programming to solve simple numerical method problems.

Course Contents

- Introduction to Problem Solving through programs, Importance of C, Basic structures of C Programs, Programming Style, Executing a C program.
- Syntax and Semantic errors, Variables and Data Types: Introduction, character set, C tokens, keywords and Identifiers, Declaration of variables, assigning values to variables, Defining symbolic constants.
- Operations and expressions: Introduction, Arithmetic expressions, Arithmetic operations, Relational Operations, Logical expressions; Increment and decrement operators, Conditional operators, Bitwise operators, Special operators, Evaluation of expressions, Precedence of arithmetic operations, Types conversions in expressions, operator precedence and Associativity.
- Introduction to Conditional Branching, Decision making with if statements, nesting, the switch statements, while loops, The do statements, Jumps in Loops.
- 2-D arrays, Declaration and Initialization of 1D and 2 D arrays, Example programs- Linear search, Binary search, Bubble Sort, Selection Sort, Character Arrays and Strings: Declaring and Initialization, Arithmetic operations on characters, String handling functions, Two-dimensional Character arrays.
- Structures and Pointers: Declaring Pointers, Initialization of Pointer variables, accessing a variable through a pointer, pointer expressions, category of functions, Passing arrays to functions.

Resource person :

Mrs. P. Vjyaya Bharathi,
Associate Professor, VIEW

Co-ordinator :

Mr. B. Sai Bhardwaj, Assistant Professor
Department of ECE, Mobile : 9666991689
Email Id: saibhardwaj449@gmail.com

Venue : English Communication Lab (B-37)

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

Add on Course on

Problem Solving Skills using C

25th November 2019 to 30th November 2019

Duration of the Course : 36 Hrs.

Problem Solving using C

Organized by

Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
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E-mail: viewvizag@yahoo.com, website : vignanview.org

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

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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.

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Mission

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

Course Description and Objectives

This is an introductory programming course to develop problem-solving techniques for numerical and non-numerical problems from various disciplines. Students will design the solution to each problem and implement it in the C programming language. This course enables students to

1. Formulate simple algorithms for arithmetic and logical problems
2. Use arrays, pointers and structures to formulate algorithms and programs

Course Outcomes

Students will be able to :

1. Formulate and solve first-order transients.
2. Analyze the spectra of non-periodic signals

Course Contents

- Introduction to Electronic Circuit Theory, Fundamentals of DC Circuits, DC transient Analysis: Transient response of RL, RC, RLC circuits under DC Excitation, AC circuit analysis: Sinusoidal voltage and current, Definition of Instantaneous, Peak-to-peak, Root mean square and average values, Voltage-Current relationship in resistor, inductor and capacitor, phasor circuits , Instantaneous Power, Average power, Reactive Power, Power factor,.
- Introduction to semiconductor devices & circuits, Small Signal Analysis, DC and AC Load Line Analysis, Hybrid Model of CE Configuration,Quantitative Study of Frequency Response of CE Amplifier, Effect on Gain and Bandwidth for Cascaded RCCoupled CE Amplifier.
- Circuit Modeling: Simple Series Circuit using an Equation Solver, PSpice Solution of Simple Series Circuit, Characteristic with Temperature Dependence, Thevenin Solution, Diode Models,Diode Circuits, Rectifier, Clipping, Zener Circuits, Clipping , MOSFETS , PSpice AC, DC, Transient, and Bias, Point Simulations, MOSFET as Switch, Resistive Pull-up, Active Pull-up, Drive an LED, Basic NMOS Gate,Ohmic and SAT Regions, Bias with Current Source, MOSFET Small-Signal Analysis, Small-Signal Model,Common-Source Amplifier, Source-Follower, Input and Output Impedance, Bipolar Junction Transistors,Hybrid-pi Model, Common Emitter Amplifier, EmitterFollower, Input and output Impedance, Op-Amps, Analysis using Subcircuits
- Frequency Domain Representation of Signals, Spectrum Analysis of Aperiodic signals, General Principles of Non-linear devices in frequency domain.

Venue : CEED Lab (C-35)

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Visakhapatnam-49.

Resource person :
Mr.Md.Ajmal, Data Pro, Visakhapatnam

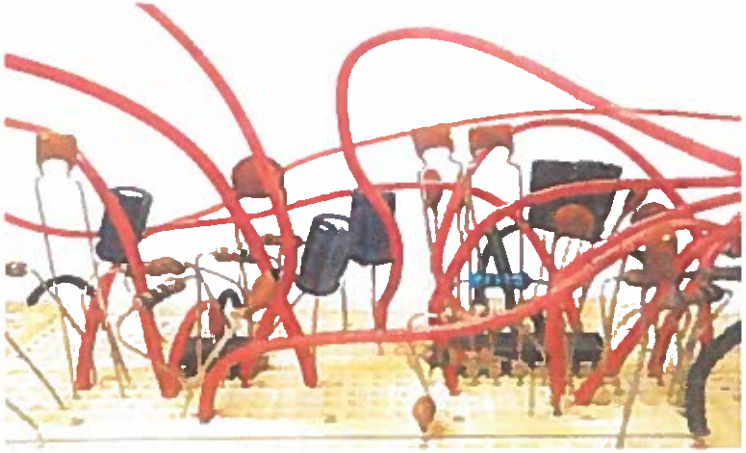
Co-ordinator :
Dr. V.S.V.Ranga Das, Asst. Professor
Department of ECE, Mobile : 9346751310
Email Id: rangadasv@view.edu.in

Add on Course on

Foundation Basics of Electronics

25th November 2019 to 30th November 2019

Duration of the Course : 36 Hrs.



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

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Course Description and Objectives

The course is about basic electronic circuits, both analog and digital. In the analog part, diode circuits, BJT amplifiers, Op Amp circuits will be covered. In the digital part, combinatorial and sequential circuits will be covered. A unique feature of the course is extensive use of circuit simulation results in order to give a realistic picture of the circuit operation and waveforms

1. To familiarize the concepts of electronic circuits and their circuit behavior
2. To analyze the analog circuits using frequency domain techniques

Course Outcomes

Students will be able to

1. Develop a PCB board to connect the hardware components.
2. Experiment with the designed circuit.

Course Contents

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

PRINCIPAL
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Venue : EDC Lab (B-32)

Resource person :

Mr. T. Pradeep, Apply Volt, Vijayawada.

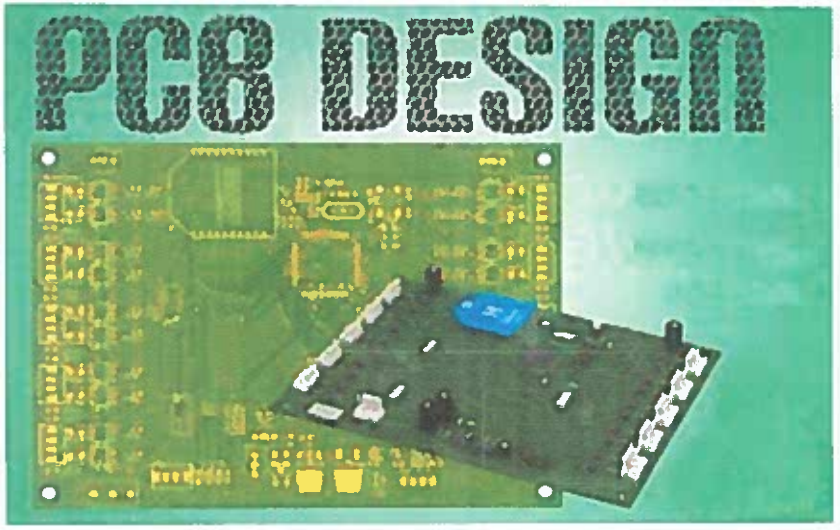
Co-ordinator :

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

Add on Course on PCB Design & Fabrication

25th November 2019 to 30th November 2019

Duration of the Course : 36 Hrs.



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Course Description and Objectives

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

1. To understand the procedural steps for the design of PCB board for projects.
2. To construct hardware components on the designed PCB board.

Course Outcomes

The Students will able to :

1. Develop working prototypes.
2. Focus on working with ARM processor for sending data from onboard sensors to cloud

Course Contents

- Introduction to ARM, Embedded system definition, Microprocessor and Micro Controller, ARM processor architecture, The ARM Mbed Systems, NXP LPC 1768, BBC Microbit.
- Introduction to IoT, Change of lives with IoT, Potential IoT applications- Home, Security, Safety, Energy, Transport etc.
- IoT Enabling Technologies, Sensors & Actuators, Communications, RFID and NFC, Blue tooth Low energy, LiFi, 6Low Pan, Web Socket, Zigbee, HTTP, MQTT, XMPP, Hardware and software requirements, Connecting embedded to PC, Embedded C++/C Programming Language.
- Digital inputs and outputs, Busin, Busout, Accelerometer and Magnetometer, SD Card, Local File System, Interrupts, Digital Interfaces, Networking and Communications, Ethernet, WiFi, Debugging, libraries and Programs, Hands on Sessions for weather monitor, green house farming, Shopping RFID readers etc.

Venue : MPMC Lab (C-33)

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

Resource person :
Mr. S. Venkatesh, Electro Pro

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

Add-on Course on Design for Embedded and IoT

08th July 2019 to 13th July 2019

Duration of the Course : 36 Hrs.

Organized by

Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
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E-mail: viewvizag@yahoo.com, website : vignanview.org

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PRINCIPAL
Vignan's Institute of
Engineering for Women
K. L. Peta, VSEZ (P.O.),
Visakhapatnam-530 049.

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Course Description and Objectives

This course focuses on the latest microcontrollers with application development, product design and prototyping, networking and communication technologies (short range and long range), cloud infrastructure, cloud computing, server concepts, IoT Protocols, application specific user dashboard design.

1. To design and develop embedded systems and IoT applications using ARM Processor.
2. To understand the communication interfaces and technologies available for the design of embedded system.

Course Outcomes

The Students will able to :

1. Apply C++ features
2. Build C++ classes using appropriate encapsulation and design principles.

Course Contents

- Introduction to C++: Differences between C & C++, Evolution of C++, Object Oriented Programming, Characteristics of an Object Oriented Language. Data Structures: Definition of Stack, Array Implementation of Stack, Conversion of Infix Expression to Prefixand Postfix Expressions, Evaluation of Postfix Expression.
- Classes and Objects & Constructors and Destructor, Classes in C++, Member functions, Constructors, Destructors.Definition of Queue, Circular Queues, Array Implementation of Queues, Linked List and its Implementation, Link List Implementation of Stack and Queue, Circular and Doubly Linked List. Pointers & Binding in C++, Virtual functions, Overloading of Template function, Vectors, Lists & Maps
- Searching and Sorting: Insertion Sort, Selection Sort, Bubble Sort, Merge Sort, Linear Search, Binary
- Search, Trees, Introduction to Trees, Binary Search Tree, Insertion and Searching in a BST, Preorder, Postorderand Inorder Traversal (Recursive).

Venue : CEED LAB (C-35)

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

Resource person :

Mr. Md. Ajmal, Data Pro Solutions, Visakhapatnam.

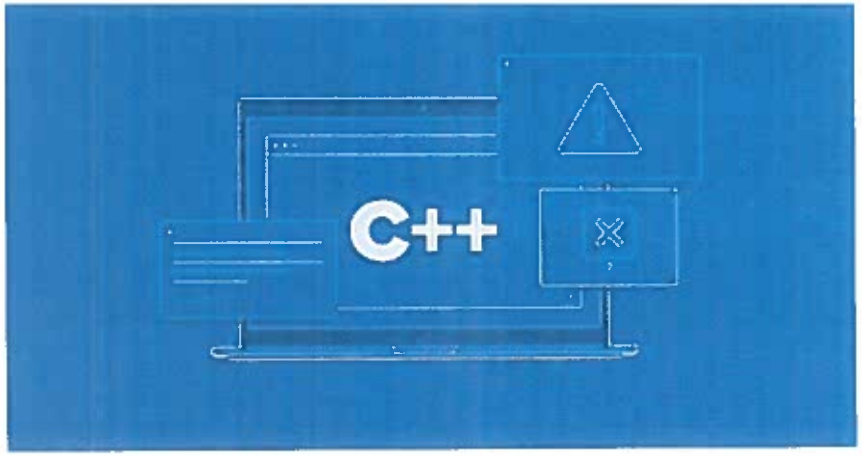
Co-ordinator :

Mr. P. Gopi Krishna, Assistant Professor
Department of ECE, Mobile : 9603260132
Email Id : gopipossible@gmail.com

Add-on Course on Problem Solving Skills Using C++

08th July 2019 to 13th July 2019

Duration of the Course : 36 Hrs.



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Vignan's Institute of Engineering for Women
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Course Description and Objectives

This course introduces computer programming and problem solving using the C++ language. Topics include C++ syntax and semantics, principles of design, and basic software engineering skills. Students find this course requires more attention than regular courses; therefore, students should already have programming knowledge in either C++ or another high level programming language.

1. To describe the concepts of streams, classes, functions, data and objects.
2. To discuss the concepts of function overloading, operator overloading, virtual functions.

Course Outcomes

The Students will able to :

1. Develop Arduino projects for real-time applications
2. Communicate between Arduino and computer through Serial ports for remote control.

Course Content

Topics

- Arduino Sketch Structure and Flow: Loop Demonstration Sketch, Functions in the Loop Demonstration Sketch, Summary of Functions, Calling Functions, Passing a value to a function.
- Variables, Variable Types, Using a variable in a sketch, Types of Variables, Naming and Initialization of variables, Arithmetic Operators, Arithmetic Sketch, Comments on the Sketch, Rational Operators, Types of Relational Operators, Relational Operator Sketch, Arduino Increment Operator, Printing and Incrementing, Post Incrementing, Commenting Sketches, Multi-line Comments, Single line comments.
- The Arduino for loop, while loop, if statements, making decisions with if-else, Initialization, Increment, counting, While Loop structure, Arduino If statement structure, Practical sessions on practicing the programs.
- Arduino sketch from the Serial Ports, Serial Inputs, strings, Arrays, Defining, accessing, Initializing and uses of arrays, String character arrays, example sketches, Manipulating string arrays, Functions to manipulate string arrays, Array bounds, Arduino String objects, uses of string arrays. Getting serial input, string input, finding the end of the string, Building the string, Sketch Limitations.

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Visakhapatnam-49.

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

Co-ordinator :
Mrs. S. Malathi, Assistant Professor
Department of ECE, Mobile : 9542547030
Email Id: Malathi60@view.in

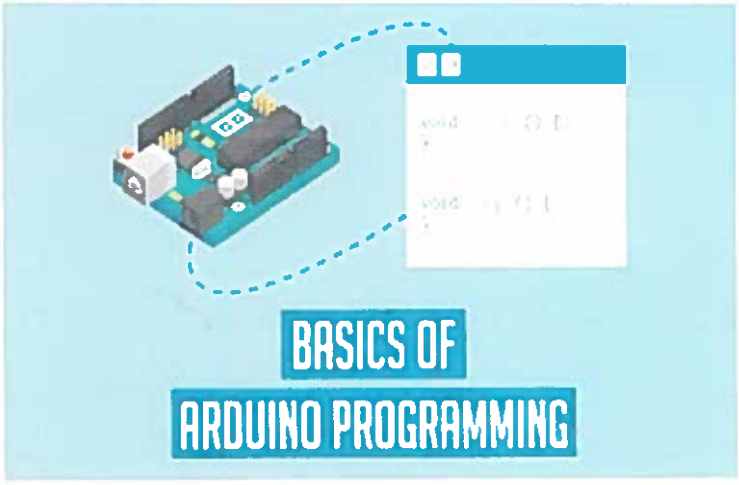
Venue : MPMC Lab (C-33)

Add on Course on

Arduino Programming

08th July 2019 to 13th July 2019

Duration of the Course : 36 Hrs.



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Course Description and Objectives

This course is intended for enthusiastic students or hobbyists. With Arduino, one can get to know the basics of micro-controllers and sensors very quickly and can start building prototype with very little investment. This course is intended to make you comfortable in getting started with Arduino.

1. To program Arduino with C/ C++
2. To build Arduino circuit with hardware components

Course Outcomes

The Students will able to :

1. Write and trace the algorithms.
2. Apply programming knowledge to solve the problems demanded by the industry.

Course Contents

- Data Structures: Definition of Stack, Array Implementation of Stack, Conversion of Infix Expression to Prefix and Postfix Expressions, Evaluation of Postfix Expression.
- Introduction to OOP, procedural programming language and object oriented language, principles of OOP, applications of OOP, history of java, java features, JVM, program structure. Variables, primitive data types, identifiers, literals, operators, expressions, precedence rules and associativity, primitive type conversion and casting, flow of control.
- Classes and objects, class declaration, creating objects, methods, constructors and constructor overloading, garbage collector, importance of static keyword and examples, this keyword, arrays, command line arguments, nested classes.
- Introduction to Data Structures and Algorithms, Java Implementation of 1D, 2D arrays and its operations, Linked Lists, stack and Queue, Java implementation of linked lists, stack and queue
- Binary Trees: Representation and Operations, Variations of binary tree: Binary search tree, Height balanced search tree, HeapTree.Java implementation of binary trees and its variations
- Searching & Sorting Algorithms, Greedy Algorithms, Shortest path algorithms, Euclids Algorithms, JAVA implementation of graph data structures, and other algorithms.

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

Resource person :
Mr. Md. Ajmal, Data Pro Solutions, Visakhapatnam

Co-ordinator :
Mr. K. Rajendra Prasad, Assistant Professor
Department of ECE, Mobile : 9346751310
Email Id: rajendraprasadkuruti@gmail.com

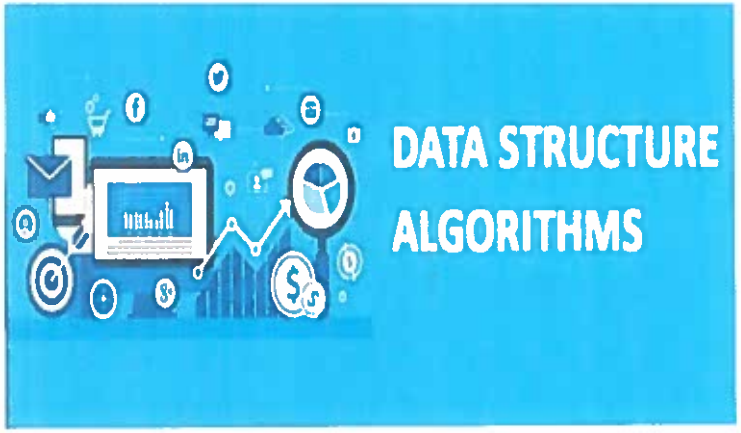
Venue : CEED Lab (C-35)

Add-on Course on

Data Structures and Algorithms using Java

02nd December 2019 to 07th December 2019

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 understand the details of data structures and algorithms
2. To write programs for different data structures and algorithms in JAVA

Course Outcomes

The Students will able to :

1. Analyze the characteristics of Microstrip Patch antenna for different models designed using ANSYS.
2. Develop the designed antenna in ANYSYS for 4G applications.

Course Contents

- Basics of Ansys HFSS geometry design and the EM simulation workflow, Introduction to ANSYS software and ACP tools, Solution set up using ANSYS, Post processing, Geometry Construction, Schematics model and design, draping, rules, step by step process to design.
- Antenna-related HFSS topics such as radiating boundaries, including how well they absorb energy from different angles, and hybrid regions which connect different antenna simulations together. HFSS Antenna of both finite element analysis (FEA) volumetric simulation as well as integral equation (IE) simulation , connect a reflector antenna dish simulation to a horn antenna simulation feeding the dish. HFSS Antenna practices impedance matching antenna with circuit elements and examples of finite array design analysis with unit cells and Floquet modes.
- Composite materials used for the design of antenna and its characteristics, Design of Microstrip patch antenna.Different patch shapes and their characteristics in the design of Microstrip Patch Antenna. Analysis of Microstrip patch antenna with different substrate materials and patches for 4G applications

Resource person :
Dr. Puvvada Ramesh, Rtd. Professor,
Department of ECE

Co-ordinator :
Mrs. B. Manjula, Assistant Professor,
Department of ECE, Mobile : 9959006960
Email Id: manjulab@gmail.com

Venue : MPMC Lab (C-33)

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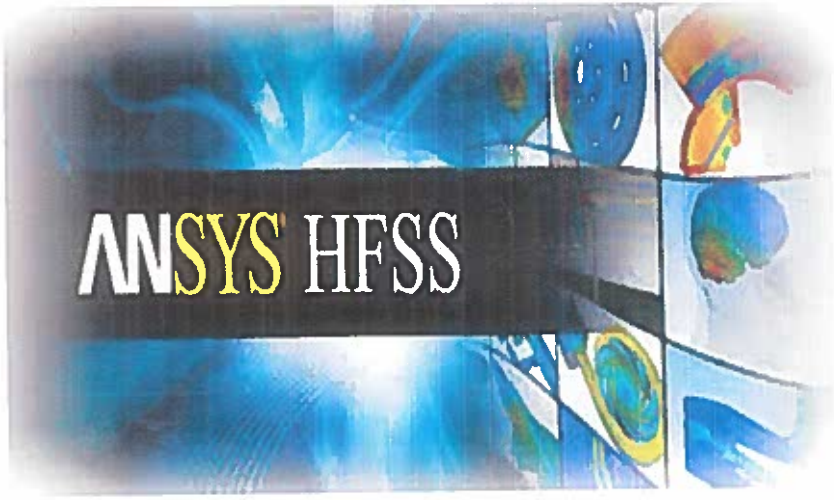
Add-on Course on ANSYS HFSS

02nd December 2019 to 07th December 2019

Duration of the Course : 36 Hrs.



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Course Description and Objectives

HFSS is full-wave 3D which means it solves all of Maxwell's Equations. The limit on accuracy is basically dependent on the mesh size. HFSS is very good at extracting s-parameters and fields. Q3D is quasi-static 3D which means it dosesn't solve the time dependence piece of Maxwell's equations. This course is for students who are willing to learn and pratice in microwave engineering..

1. To model simple and complex composite models in ANSYS
2. To work with different ANSYS tools.

Course Outcomes

The Students will able to :

1. Discuss the trade-off related to system engineering process
2. Develop a high-speed optical transmission system

Course Contents

- Noise sources, channel impairments, and optical transmission systemdesign principles(ii) Advanced modulation formats, OFDM, polarization multiplexing,constrained coding, and coherent detection: Multilevel modulation schemes,Orthogonal frequency-division multiplexing (OFDM),Polarization multiplexing,
- Constrained (line or modulation) coding, andCoherent detection, Forward error correction (FEC): Linear block codes and cyclic codes,BCH and RS codes,Concatenated codes,Turbo- and turbo-product codes, andLDPC codes.
- Coded modulation schemes:Multilevel coding,Bit-interleaved coded modulation, andCoded OFDM.Advanced chromatic dispersion compensation:Signal pre-distortion compensation,Post-detection compensation: feed-forward equalizer (FFE),decision-feedback equalizer (DFE), maximum-likelihood sequenceestimation (MLSE) or Viterbi equalizer (VE), turbo equalization (TE);Compensation of chromatic dispersion by OFDM.Advanced PMD compensation:Optical compensation techniques,Electrical compensation techniques,
- Nonlinearity management:Compensation of intrachannel and interchannel nonlinearities, Compensation of nonlinear phase noise,Digital back-propagation method, andTurbo equalization.Spatial-Domain-Based Multiplexing and Modulation, Optical channel capacity: Channel Capacity Preliminaries, Calculation of information Capacity, Information Capacity of Systems with Direct Detection, Information Capacity of Multilevel Systems with Coherent Detection, Capacity of Optical OFDM Systems, Channel Capacity of Optical MIMO MMF Systems

Resource person :

Mr. A. Sesha Rao, Rtd. Scientist, NSTL

Co-ordinator :

Mr. S. Tarun Prasad, Assistant Professor,
Department of ECE, Mobile : 8790189[illegible],
Email Id: tarunprasads@view.edu.in

Venue : B-36, Dept. of ECE, VIEW

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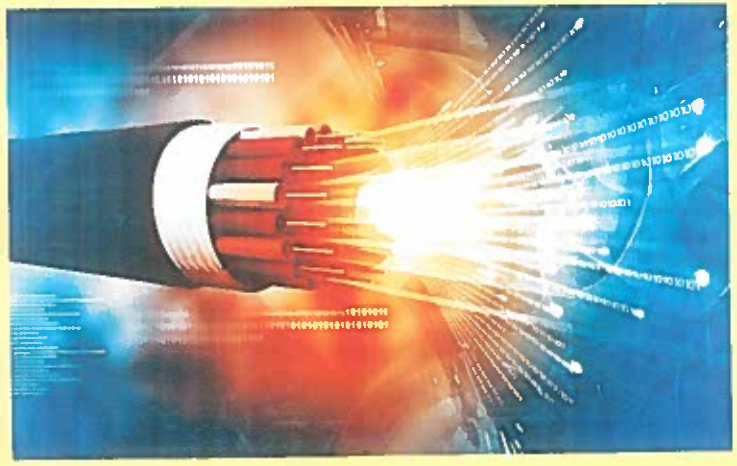
Visakhapatnam-49.

Add on Course on

Advanced Optical Communications

02nd December 2019 to 07th December 2019

Duration of the Course : 36 Hrs.



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

M3 : To promote entrepreneurship through creativity and innovation.

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

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

About the Department

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

Vision

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

Mission

M1 : To train globally employable engineers through effective teaching – learning process, industry ready skills and value-added courses.

M2 : To promote higher education and research initiatives through continuous industry interaction and special skill development programs.

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

Course Description and Objectives

Tinkercad is a free, easy-to-use app for 3D design, electronics, and coding. It's used by teachers, kids, hobbyists, and designers to imagine, design, and make anything! Users can quickly learn how to use the Tinkercad software through basic tutorial lessons that focus on the basics of the Tinkercad tool. This course enables students to

1. To understand the advanced concepts of optical communication.
2. To discuss the effects of multiplexing and multi-band modulation techniques used in optical communication.

Course Outcomes

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

- Learn Problem solving and programming capability.
- Create robust and readable applications and fun games.

Course Contents

- Introduction to Python – Basic concepts, Design your own calculator
- Google Translate : Speak in any Language
- Sentiment Analysis: Analyse your Facebook data,20 questions game: I can read your mind
- Sorting: Arrange the books, Searching : Find in second
- Recursion : Tower of Hanoi
- Spot the similarities : Dabble game
- Image Processing : Fun with images

Resource Person

Name of the Resource Person: Mr.Kantha Reddy,
Technical Head, Brain O Vision, Pvt Ltd,
Hyderabad

Program Venue: Advanced Programming Lab - B15

Co-ordinator

For Registration:

Mrs. R. Pravallika
Assistant Professor
Department of Computer Science and Engineering

Add on Course on

The Joy of Programming using Advanced Python

30th Dec 2019 to 7th Jan 2020

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.

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

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

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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.

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Course Description and Objectives

The course focuses primarily to inspire the learner's mind to think logically and arrive at a solution programmatically. As part of the course, you will be learning how to practice and culture the art of programming with Python as a language. At the end of the course, we introduce some of the current advances in computing to motivate the enthusiastic learner to pursue further directions.

1. The course focuses primarily to inspire the learner's mind to think logically and arrive at a solution programmatically.
2. To practice and culture the art of programming with Python as a language.

Course Outcomes

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

- Provides a proven set of software for delivering high-performance web applications.
- Understand Web Application Terminologies, Internet Tools, E – Commerce and other web services.

Course Contents

- Introduction to LAMP ,Basic concepts.
- UNIX/LINUX file security Permissions rules &concept, Apache web Server Administration.
- XHTML & HTML5.0,Development Orientation Training for Java Script.
- Cascading Style Sheets, Document object model.
- Advance PHP,My SQL database.
- AJAX,Web Applications.
- Apache web Server Administration, Browsing the File System.

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Visakhapatnam-49

Resource Person

Name of the Resource Person: Mr. L. Simhadri Rao
Technical Trainer,
Miracle Software Solutions

Program Venue: Data Base Design Lab C -22

Faculty Coordinator

For Registration:

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

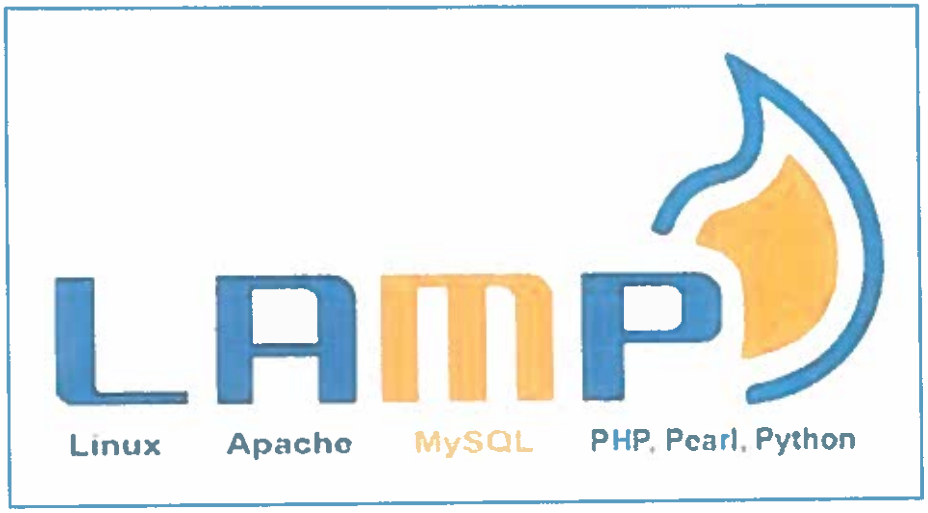
Add - on Course on

LAMP

(Linux ,Apache, MySQL, PHP)

30th Dec 2019 to 7th Jan 2020

Duration of the Course : 42 hrs



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Course Description and Objectives

LAMP is an open source Web development platform that uses Linux as the operating system, Apache as the Web server, MySQL as the relational database management system and PHP as the object-oriented scripting language. (Sometimes Perl or Python is used instead of PHP.).

- The course focuses primarily to understand the basics of Linux, Apache, Mysql,PHP.
- To develop web applications.

Course Outcomes

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

- Develop an ability to design and implement enterprise-level web apps
- Understand Web Application Terminologies, Internet Tools, E – Commerce and other web services

Course Contents

- Introduction to HTML and CSS, HTML & CSS Project
- Master JavaScript and JQuery, JavaScript Events, Master PHP
- MySQL ,Learn to Build web apps using Yii
- Understand the use and application of XML, JSON and Ajax
- Fetching Data With Ajax
- XML With DTD Schema
- Build great web apps and sites

Resource Person

Name of the Resource Person: Mr. Ganesh Nagu Doddi
CEO, Brain-O-Vision

Program Venue: Network Programming Lab - B16

Faculty Coordinator

For Registration:

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

Add - on Course
on
Web Development from Scratch

30th Dec 2019 to 7th Jan 2020

Duration of the Course : 42 hrs

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

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Course Description and Objectives

Web Technology refers to the various tools and techniques that are utilized in the process of communication between different types of devices over the internet. A web browser is used to access web pages. Web browsers can be defined as programs that display text, data, pictures, animation, and video on the Internet. Hyperlinked resources on the World Wide Web can be accessed using software interfaces provided by Web browsers.

- It provides a proven set of software for delivering high-performance web applications.
- Understand Web Application Terminologies, Internet Tools, E – Commerce and other web services.

Course Outcomes

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

- Identify various concepts of mobile programming that make it unique from programming for other platforms
- Deploy applications to the Android marketplace for distribution.

Course Contents

- Introduction to Android Operating System: Android OS design and Features – Android development framework, SDK features, Installing and running applications on Android Studio, Android tools.
- Android application components – Android Manifest file,Resources for different devices and languages, Runtime Configuration Changes Android Application Lifecycle.
- Android User Interface: Measurements – Device and pixel density independent measuring unit,Layouts , Components, Event Handling, Fragments.
- Intents and Broadcasts: Intent. Broadcast Receivers – Using Intent filters to service Implicit Intents, Resolving Intent filters, finding and using Intents. Notifications – Creating and Displaying notifications, Displaying Toasts.
- Persistent Storage: Files, listing contents of a directory Shared Preferences – Creating shared preferences, saving and retrieving data using Shared Preference.
- Database –Introduction to SQLite database, creating and opening a database, creating tables, inserting retrieving and editing data.

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

Resource Person

Name of the Resource Person: Ms.P.Sakhambari & Ms.Ch.Nandini ,
Technical Trainers ,APSSDC.

Program Venue: Network Programming Lab B-16

Faculty Coordinator

For Registration:

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

Add - on Course
on

Mobile Application Development

19th July 2019 to 25th July 2019

Duration of the Course : 36 hrs

MOBILE
APP DEVELOPMENT

Organized
by

Department of Computer Science and Engineering

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Course Description and Objectives

To build apps for both Android and iOS using native platform technologies for design and development related to mobile applications. Topics include accessing device capabilities, industry standards, operating systems, and programming for mobile applications using an OS Software Development Kit (SDK).

- To facilitate students to understand android SDK.
- To help students to gain a basic understanding of Android application development.

Course Outcomes

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

- Choose the right hardware, software and protocols for the proposed application.
- Learn the fundamentals of this emerging technology.

Course Contents

- Introduction to Internet of Things: Application areas of IoT, Characteristics of IoT, Things in IoT, IoT stack, Enabling technologies, IoT challenges, IoT levels, IoT and cyber physical system, IoT and WSN.
- Sensors, Microcontrollers, and Their Interfacing: Sensor interfacing, Types of sensors, Controlling sensors, Microcontrollers, ARM.
- Protocols for IoT: Messaging protocols, Transport protocols, IPv4, IPv6, URI.
- Cloud for IoT: IoT and cloud, Fog computing, Security in cloud, Case study.
- Application Building with IoT: Various application of IoT : Food, Healthcare, Lavatory maintenance, Water quality, Warehouse, Retail, Driver Assistance, Collision impact.
- Arduino and Raspberry PI: Architecture and Programming.
- IoT Security: Various security issues and need, architecture, requirement, challenges and algorithms.

Resource Person

Name of the Resource Person: Mr.D.Satish,
Associate Professor, Dept of CSE,
Vignan Institute of Engineering and Technology

Program Venue: : Basic Programming Lab B-II

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

Faculty Coordinator

For Registration:

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

Add on Course on

Essentials of IoT and Applications

19th July 2019 to 25th July 2019

Duration of the Course : 36 hrs

Organized by

Department of Computer Science and Engineering

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Course Description and Objectives

Internet of Things (IoT) devices support the expansion of internet connection beyond the usual standard devices like computers, laptops, smartphones etc. These IoT devices are purely integrated with high definition technology which makes it possible for them to communicate or interact over the internet smoothly and can also be managed and controlled remotely when required.

1. To understand the recent application domains of IoT in everyday life.

2. To design and build an actual IoT system.

Course Outcomes

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

1. Understand implicit and explicit parallel platform.

2. Use different performance metrics for analysis of parallel algorithms.

Course Contents

- Overview of Parallel Computing
  Hardware and software paradigms Shared Infrastructure
- Communication Paradigms
  Point-to-point / collective communication Blocking / non-blocking communication
- Designing, Coding and Debugging
  Foster's methodology Deadlock; race conditions
- Measuring Performance and Profiling
  Performance metrics Compute-bound vs. memory-bound
- Parallel Algorithms and Libraries
  Independent tasks; domain decomposition Parallel Matlab, PETSc
- Applications
  Linear systems, eigenvalues, quadrature, Differential equations, optimization

Resource Person

Name of the Resource Person: Dr.T.Srinivas,
Assoc Professor, Dept of CSE, GITAM

Program Venue: Classroom B-24

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

Faculty Coordinator

For Registration:

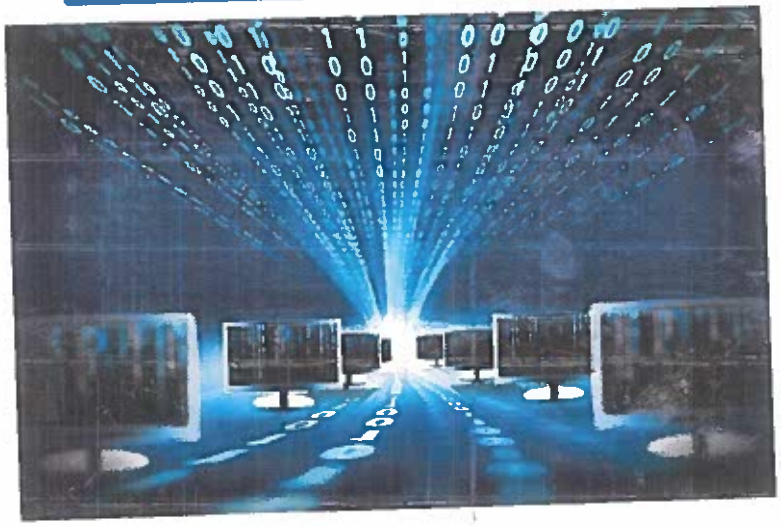
Mrs. Y. Vineela Sravya
Assistant Professor
Department of Computer Science and Engineering

Add on Course
on

PARALLEL COMPUTING

19th July 2019 to 25th July 2019

Duration of the Course : 36 hrs



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Course Description and Objectives

To study the scalability & clustering issues, understand the technologies used for parallel computation, study the different inter connection networks and the different software programming models.

1. To understand the technologies enabling parallel computing.

2.To study the different types of interconnection networks.

Course Outcomes

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

- Analyze the behavior of basic quantum algorithms.
- Implement simple quantum algorithms and information channels in the quantum circuit model.

Course Contents

- Introduction: Quantum Measurements Density Matrices, Positive-Operator Valued Measure Fragility of quantum information: Decoherence, Quantum Superposition and Entanglement.
- Fragility of quantum information: Decoherence, Quantum Superposition and Entanglement, Quantum Gates and Circuits.
- Quantum Basics and Principles: No cloning theorem & Quantum Teleportation, Bell's inequality and its implications, Quantum Algorithms & Circuits.
- Algorithms: Deutsch and Deutsch–Jozsa algorithms, Grover's Search Algorithm, Quantum Fourier Transform, Shore's Factorization Algorithm.
- Performance, Security and Scalability: Quantum Error Correction: Fault tolerance; Quantum Cryptography, Implementing Quantum Computing: Issues of fidelity; Scalability in quantum computing.
- Quantum Computing Models: NMR Quantum Computing, Spintronics and QED MODEL, Linear Optical MODEL
- Nonlinear Optical Approaches; Limits of all the discussed approaches, Future of Quantum computing.

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

Resource Person

Resource Person: Dr. B.Subba Rao
Director, SAMEER

Program Venue: Classroom A-11

Faculty Coordinator

For Registration:

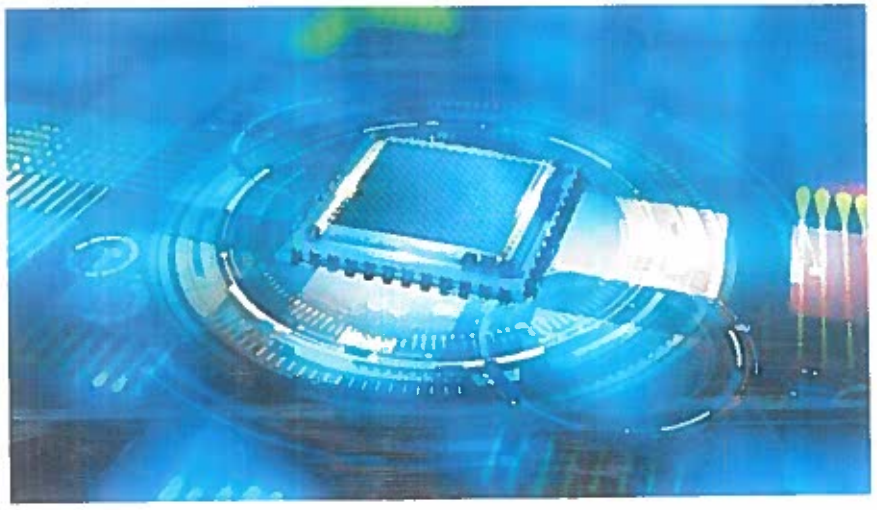
Mrs. M. Mamatha Laxmi
Assistant Professor
Department of Computer Science and Engineering

Add on Course on

Quantum Computing

5th Feb 2018 to 12th Feb 2018

Duration of the Course : 35 hrs



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

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.
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M3:To promote entrepreneurship through creativity and innovation.
M4:To promote environmental sustainability and inculcate ethical, emotional and social consciousness.

About the Department

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

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

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Course Description and Objectives

Quantum Computing is an area of study focused on the development of computer based technologies centred on the principles of quantum theory. It explains the nature and behavior of energy and matter on the quantum level. Development of quantum computers marks a leap forward in computing capability, with massive performance gains for specific use cases.

- To understand the fundamentals of quantum information processing.
- To understand quantum cryptography, and quantum information theory.

Course Outcomes

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

- Understand the fundamentals of Block chain.
- Understand how Block Chain can be integrated with various current technologies.

Course Contents

- Block chain Fundamentals: Tracing Block chain's Origin, The emergence of bit coin, The birth of block chain, Exploring a block chain application, key business benefits.
- How Block chain Works: What Makes a Block chain Suitable for Business?, Identifying Participants and Their Roles.
- Recognizing Types of Market Friction, Moving Closer to Friction-Free Business Networks, Reducing Information friction, Transforming Ecosystems through Increased Visibility.
- Block chain in Action: Use Cases: Financial Services, Commercial financing, Trade finance, Insurance, Government, Supply Chain Management, Healthcare, Electronic medical
- Hyper ledger, a Linux Foundation Project: Hyper ledger Vision, Hyper ledger Fabric, How Can IBM Help Developers Innovate With Block chain
- Offering an easily accessible cloud and development platform, Security and Safeguards, Protection from attackers
- Hacks on exchanges, what is stopping adoption? Scalability problems, Network attacks to destroy bit coin, Case Study: Failed currencies & block chain

Resource Person

Name of the Resource Person: Mr. T. Suresh
Team Leader,
WIPRO

Programme Venue: Advanced Programming Lab A- 12 , B-15

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

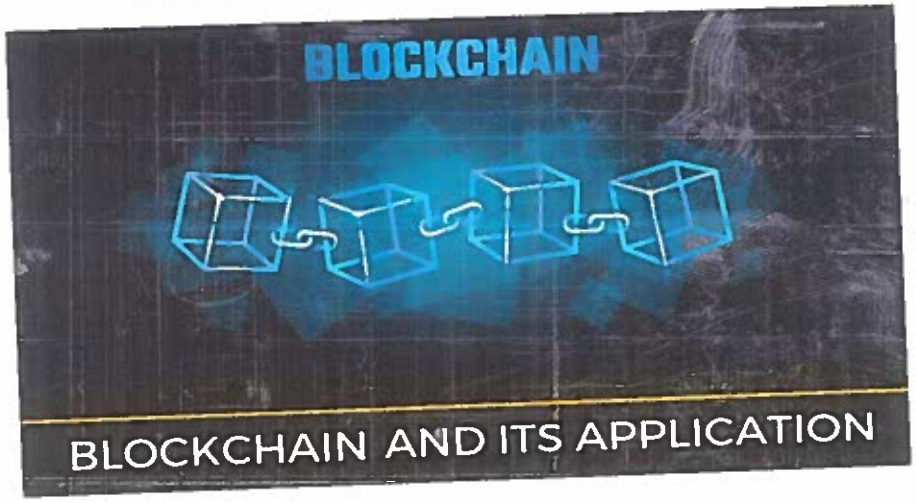
Faculty Coordinator

For Registration: Mrs. V. Sree Lahari
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on
Block Chain and it's Applications

5th Feb 2018 to 12th Feb 2018

Duration of the Course : 35 hrs



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Department of Computer Science and Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(APPROVED BY AICTE & AFFILIATED TO JNTUK)
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Course Description and Objectives

Block chain is a shared, immutable ledger that facilitates the process of recording transactions and tracking assets in a business network. An asset can be tangible. Virtually anything of value can be tracked and traded on a block chain network, reducing risk and cutting costs for all involved.

- To understand the fundamental concepts and functionalities of Block chain.
- To understand methods in securing distributed ledgers and on theircontents is achieved.

Course Outcomes

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

- Learn the basics as well as become proficient in applying these methods to real-world applications.
- Apply various kinds of algorithms in Convolutional Neural Networks and will build filtering and image formation on computer vision.

Course Contents

- Applications of Computer Graphics and Image Processing, Fundamentals on Pixel concepts, effect of Aliasing and Jaggies
- Translations, Scaling, rotation, reflection and shear transformations, Homogeneous coordinates, Composite
- Metric and topological properties of Digital Images, Histogram, entropy, Visual Perception, Image Quality, Color perceived by humans, Color Spaces, Palette Images, color Constancy.
- Pixel brightness transformations, Local Preprocessing, Image smoothing, Edge detectors, Robert Operators, Laplace, Prewitt, Sobel, Fri-chen, Canny Edge detection.
- Mathematical Concepts, Binary dilation and Erosion, Opening and closing, Gray Scale dilation and erosion, Skeleton, Thinning
- Threshold detection methods, Optimal Thresholding, Edge based Segmentation-Edge image thresholding, Edge relaxation
- Image data Properties, Discrete Image Transformations in data compression, Discrete Cosine and Wavelet Transforms, Types of DWT and merits.

Resource Person

Name of the Resource Person: Dr.Venkata Rama Sistla,
Assoc Professor, Dept of CSE,
VFSTR

Program Venue: Network Programming Lab B-16

Faculty Coordinator

For Registration:

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

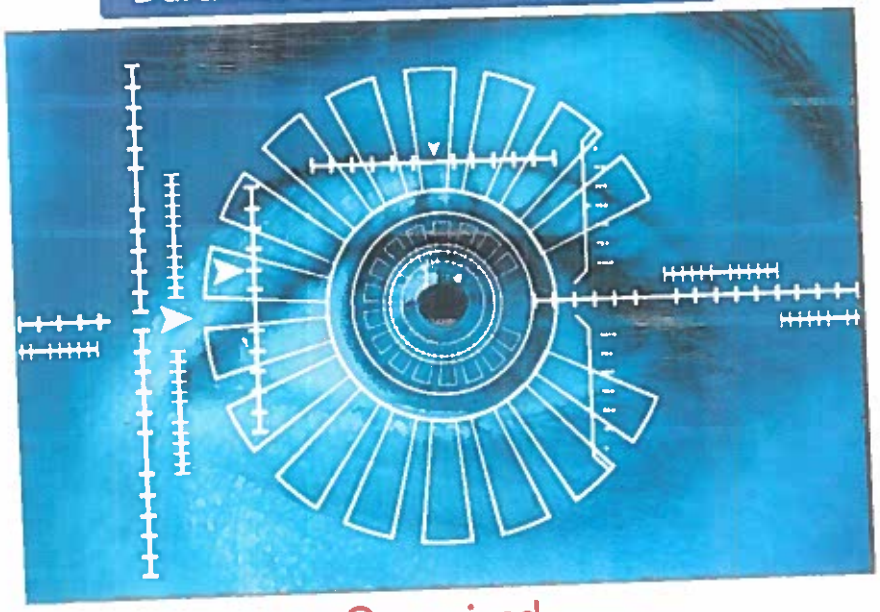
PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, NSEZ (P.O.)
Visakhapatnam-49

Add - on Course on

Computer Vision and Deep Learning

05th Feb 2021 to 12th Feb 2021

Duration of the Course : 35 hrs



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Department of Computer Science and Engineering

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Course Description and Objectives

The automatic analysis and understanding of images and videos, a field called Computer Vision, occupies significant importance in applications including security, healthcare, entertainment, mobility, etc. The recent success of deep learning methods has revolutionized the field of computer vision, making new developments increasingly closer to deployment that benefits end users.

1. To introduce students the major ideas, methods, and techniques of computer vision and pattern recognition

2. To develop an appreciation for various issues in the design of computer vision and object recognition systems.

Course Outcomes

- Install Code and Use R Programming Language in R Studio IDE to perform basic tasks on Vectors, Matrices and Data frames.
- Describe key terminologies, concepts and techniques employed in Statistical Analysis.
- Conduct and Interpret a variety of Hypothesis Tests to aid Decision Making.

Course Content

- Introduction to R, how to run R, R sessions and functions
- Arrays and classes, Loops- looping and if-else
- Returning complex object's and functions are objective
- Calculus, functions for statistical distribution & sorting
- Reading and writer files, Graphics and creating graphics
- Poisson distribution and other distribution, T-test and -ANOVA
- Logistics regression, Poisson regression, Nonlinear models

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

Resource person

Name of the Resource Person: Mrs. S. Kalyani,
Assistant Professor, VIEW

Program Venue: James Gosling Lab (C-21)

Co-ordinator

For Registration:

Mr. M. Soma Sundar Rao
Assistant Professor
Department of Information Technology
Mobile: 8966621248 Email Id: somasunder123@gmail.com

Add on Course
on
Hands-On Programming with R

09th to 16th September 2019

Duration of the Course : 35 hrs

R Programming

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Department of Information Technology

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Vignan's Institute of Engineering for Women
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Visakhapatnam-46

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Course Description and Objectives

This Course ensures the students to exercise the fundamentals of statistical analysis in R environment. They would be able to analyze data for the purpose of exploration using Descriptive and Inferential Statistics. Students will understand Probability and Sampling Distributions and learn the creative application of Linear Regression in multivariate context for predictive purpose.

Understand, Analyse, Interpret Correlation and Regression to analyse the underlying relationships between different variables

Course Outcomes

- Understand what a Content Management System is and how it differs from traditional, flat websites
- Modify the appearance and layout of WordPress websites.
  Select and integrate extra WordPress features.
- Successfully organize and present content in WordPress.

Course Content

- Installing WordPress with a Web Host's "1-Click Install"
- Creating a New Blog Post and Using the Visual Editor
- Adding a Featured Image, Uploading Images & Files Directly
- Categories & Tags Explained and Creating & Editing Categories
- Pages versus Posts, Creating a New Page and Publishing a Page
- Creating Submenus and Opening Menu Links in a New Tab
- Customizing Colors and Changing a Template Layout
- Setting Titles & Meta Descriptions with an SEO Plugin

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

Resource person

Name of the Resource Person: Mr. GANESH NAGU D[illegible]
CEO, Brain O Vision

Program Venue: Dennis Ritchie Lab (C-25)

Co-ordinator

For Registration:

Mr. Y. Laxman Rao
Assistant Professor
Department of Information Technology
Mobile: 9966144030 Email ID: laxman.544@gmail.com

Add on Course
on
WordPress Website Development

03rd to 11th February 2020

Duration of the Course : 40 hrs

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by

Department of Information Technology

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Course Description and Objectives

This course aims to WordPress and covers installing, administering, and designing a WordPress site. The class focus is on efficiently and effectively using WordPress as a content management system for your website. In this course we will cover the core functionality of WordPress, how to leverage the power of additional plugins, and how to customize and create your own WordPress themes.

- Learn Basics to Advanced modules in WordPress.
- Build easy to create and manage website for beginners.
- Learn Blog Posting and Blog create in Website.

Course Outcomes

- Analyze and resolve security issues in networks and computer systems to secure an IT.
- Design, develop, test and evaluate secure software.
- Develop policies and procedures to manage enterprise security risks. Interpret and forensically investigate security incidents.

Course Content

- Introduction to Cyber Space and Information Security
- Wi-Fi Security and Guidelines for social media security
- IOS Security and Counter Cyber Security Initiatives in India
- Online and Mobile Banking Security, UPI Security
- e-wallet Security Guidelines, POS and Social Engineering
- Cyber Security Threat Landscape , CST and IT Act
- Web Application Security and Digital Infrastructure Security

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

Resource person

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

Program Venue: James Gosling Lab(C-21)

Co-ordinator

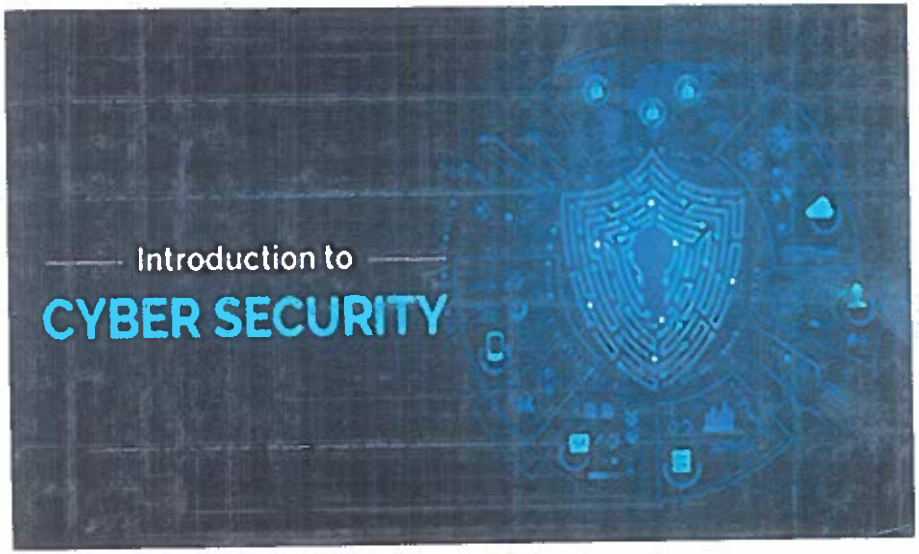
For Registration:

Mr. Ajay Kumar Badhan
Assistant Professor
Department of Information Technology
Mobile: 9966116270 Email Id: ajykumarbadhan.view@gmail.com

Add on Course on Introduction to Cyber Security

08th to 15th July 2019

Duration of the Course : 35 hrs



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

- To describe typical threats to modern digital systems, and to outline tech niques of defense against each threat..
- To describe the fundamentals of modern cryptography
- To describe the popular computer and network security mechanisms and protocols

Course Outcomes

1. Able to know the processes behind talent retention, and succession planning, planning stages of talent management.

2. Helps to understand the ways to develop and improve talent on your team, and understand the process for searching and recognizing talent.

Course Content

- Talent Management- Introduction, Importance, Types
  Talent gap, how to fill the gap, strategies to reduce talent gap
- Methodology-Planning talent, Acquiring, Developing and Retaining
- Succession and Career Planning
  Employee Engagement
- Training & Development (on the job, off the job)
  Employee Retention
- Expectancy theory in talent management
  Talent Management-DO's & DON'TS

PRINCIPAL
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Visakhapatnam-49

Resource Person

Name of the Resource Person: : Dr. Ch.HARI GOVINDHA RAO,
Asst. Professor, DEAN-IQAC, VIIT

Program Venue: Online

Coordinator

For Registration:
Mrs. M. Sirisha Rani
Assistant Professor
Department of Master of Business Administration
Mobile No:9640624614 Email ID:sirisharani25@gmail.com

Add-on Course
on
TALENT MANAGEMENT

18th Nov 2019 to 9th Dec 2019

Duration of the Course : 40 hrs

Organized
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Department of Master of Business Administration

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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

Talent management strives for understanding and anticipation of sufficient human capital and the development and planning to fulfil those human capital needs.

1. Understand the interplay between various aspects of Talent Acquisition, retention and development of talent.

2. To impart knowledge on various challenges and issues to manage young talented employees.

Course Outcomes

1. It helps to navigate and perform common tasks in Word, such as opening, viewing, editing, saving, and printing documents, and con figuring the application. Format text and paragraphs.

2. It helps to increase productivity for any employee, regardless of their previous level of experience in the software

Course Content

1. Introduction to Microsoft office, Microsoft word 2007 basic features, more basic features
2. Header and Footers, Merging documents, MS-Excel and Power point
3. Undoing and redoing setting page layouts and printing documents, Working with tables in Microsoft word 2007.
4. Creating tables of contents and figures in word 2007, Working with tables in Microsoft word 2007

Resource Person

Name of the Resource Person: : Dr. K. Vijaya Kumar,
CSE HoD , VIEW

Program Venue: Online

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

Coordinator

For Registration:

Mrs. M. Satyavathi
Assistant Professor

Department of Master of Business Administration
Mobile: 9032991981 Email Id: satyavathimanapuram1989@gmail.com

Add-on Course
on

Microsoft Office

14th Dec 2019 to 30th Jan 2020

Duration of the Course : 40 hrs

Organized
by

Department of Master of Business Administration

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(APPROVED BY AICTE & AFFILIATED TO JNTUK)
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 CERTIFIED INSTITUTION
KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

About the Institute

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

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

Vision

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

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

Mission

M1:To empower women engineers through innovative teaching-learning practices.
M2:To encourage for higher education and research with well-equipped laboratories.
M3:To promote entrepreneurship through creativity and innovation.
M4:To promote environmental sustainability and inculcate ethical, emotional and social consciousness.

About the Department

The MBA department has been established in the year 2009 with intake of 120 students. It offers two years' post- graduation 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

It is used to calculate the remuneration for each employee with respect to the work performed by him. Also called SAP Payroll, it not only consists of remuneration part but also includes other benefits that any organization has to provide for the employee welfare according to different company laws in the country.

1. To be able to create documents for printing and sharing. To be able to create and share presentations. To be able to manage and store data in a spreadsheet.

2.The ability to manage emails, calendars, and tasks will help them stay organized and productive. Support your students by helping them sharpen their technical skills in Microsoft Office.

- Apply numeric techniques and computer simulations to solve engineering-related problems.
- Demonstrate understand and use fundamental data structures.

Course Content

- Introduction: Matlab user interface, Basic Commands, Using Help topics in Matlab
- Variables and basic functions and arithmetic operations: Introduction to variables, Types, Naming conventions, The semicolon operator, Basic arithmetic operations, order of operations
- Basics of vectors and matrices: Introduction to vectors, arithmetic operations on vectors, concatenating vectors, Introduction to matrices, arithmetic operations on matrices
- Data Visualization: Creating a basic plot, customizing a plot.Conditional statements: The logical operators,
- Conditional statements: The logical operators, introduction to conditional statements – If/Else with relational operators
- Loops and Functions: How a loop works, indexing a vector with for loop, Function, Input arguments on functions

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

Venue : B-37, VIEW

Resource Person
Dr. K. Durga Shyam Prasad
Assoc. Prof., VIEW

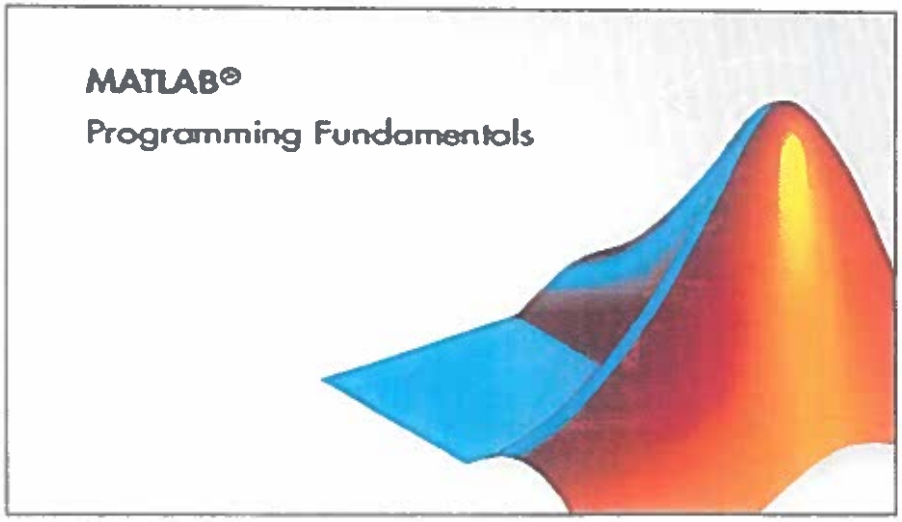
Course Co-ordinator
Mr. K.V.V.Ganeswara Rao
Asst Prof., Department of B S & H

Add-on Course on

BASICS OF MATLAB

11th Sep 2019 to 19th Sep 2019

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.

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

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About the Course

MATLAB or (Matrix Laboratory) is a high performance fourth generation programming language which is used for technical computing. It provides multi paradigm numerical computing environment and was developed by Math Works. It is used for integrating computation, visualization, and programming so that the programming environment becomes easy to use. The applications of MATLAB are immense. It is a powerful linear algebra tool with a very good collection of toolboxes; therefore, it finds applications in research and teaching on domains of robotics and automation

Objectives :

After studying this lesson, students will be able to:

1. To impart the knowledge of the MATLAB software.
2. To provide a working introduction to the MATLAB technical computing environment.
3. Create publishable, reproducible analysis reports.

Outcomes

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

- Use MATLAB effectively to analyse and visualize data.

Course Content :

- Unit 1-Introduction To Engineering Drawing
- Unit 2-Drawing And Dimensions-Learning Outcomes
- Unit 3-Drawing Instruments And Accessories
- Unit 4-Dimension And Sheet Layout
- Unit 5-Dimension Units And Angles
- Unit 6-Direct Dimensioning Situations

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

Venue : A-48, VIEW

Resource Person

Dr. Ch. Rama Krishna

Assoc. Prof., Dept of BS&H

Course Co-ordinator

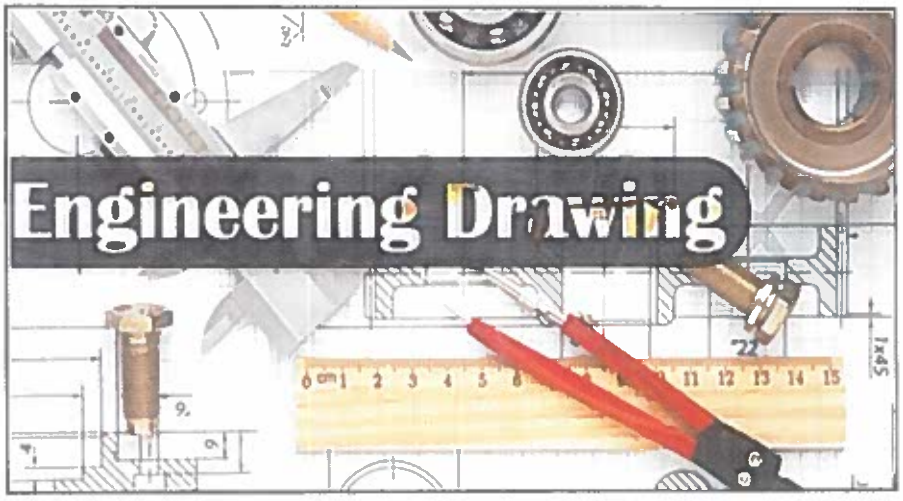
Mr. S. Giri Babu

Asst Prof., Department of B S & H

Add on Course on ENGINEERING DRAFTING PACKAGES

11th Sep 2019 to 19th Sep 2019

Duration of the Course : 36 hrs



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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

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Course the Course

The present course prepares the students to learn the basics concepts involved in technical drawing skills and computer graphics. During this course, the student will develop skills on understanding of engineering drawings used in industry computer design and development of 3D objects - exposure to visual aspects of technical drawings.

Objectives

- Basics of dimensioning, lettering & representation of lines
- Different lines used for representation of different engineering sections.
- To know different angle of projection.

Outcomes

- Describe Technical Drawing
- Evaluate dimensions using angles and their features
- Compare different methods conic section constructions

Course Content :

- Building Circuits, Build circuits on breadboards
- Resistors: Types of resistors, Resistor characteristics, Read resistor color codes, Measure resistance
- Electrical Signals: Frequency domain, Bandwidth and square waves, Signal sources
- Capacitors: What is a capacitor? Types of capacitors, Read capacitor values
- Capacitor characteristics, Capacitors in parallel, Capacitors in series

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

Venue : B-03, VIEW

Resource Person

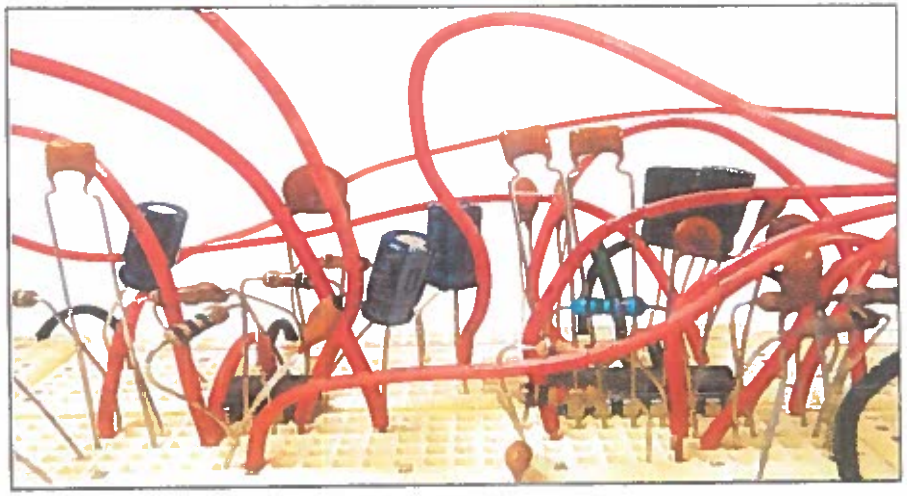
Dr. K. Murali Krishna
Professor, Dept. of ECE, VIEW

Course Co-ordinator
Mrs. Nisha Haldar
Asst. Professor, Department of B S & H

Add-on Course
on
FOUNDATION – BASICS OF ELECTRONICS

11th Sep 2019 to 19th Sep 2019

Duration of the Course : 36 hrs



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KAPUJAGGARAJU PETA, VSEZ(POST.) VISAKHAPATNAM-530049
E-mail: viewvizag@yahoo.com, website : vignanview.org

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

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About the Course and Objectives

This course is an introduction for engineering students. It explores the fundamentals of electronics i.e resistors, capacitors and how to connect and designing of electronic circuits.

- Provides an information of electronic circuits.
- Develop knowledge of electronic circuits and connections.
- Improves students' understanding of designing of complicated circuits.

Outcomes

- To build the strong foundation in Mathematics of students needed for the field of electronics and Telecommunication Engineering
- To provide students with mathematics fundamentals necessary to formulate, solve and analyses complex engineering problems.
- To prepare student to apply reasoning informed by the contextual knowledge to engineering practice.

Course Content :

- *Power & Liberation*
- *Values*
- *Expectations & Negotiation*
- *Accountability and Boundaries*
- *Conflict*
- *Community Connections*

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

Venue : A-46, VIEW

Resource Person
Dr. A. Sailaja
HOD, NIST

Course Co-ordinator
Dr. J.V.S.Kalyani
Assoc. Prof., Department of B S & H

Add on Course on

Relationship Skills

11th Sep 2019 to 19th Sep 2019

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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KAPUJAGGARAJU PETA,VSEZ(POST,) VISAKHAPATNAM-530049
E mail: viewvizag@yahoo.com, website : vignanview.org

About the Institute

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

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About the Course

The ability to establish and maintain healthy and rewarding relationships with diverse individuals and groups. This includes communicating clearly, listening actively, cooperating, resisting inappropriate social pressure, negotiating conflict constructively and seeking and offering help when needed.

Objectives

After studying this lesson, students will be able to:

- Analyze personal needs, wants, values, short and long term goals, and their effect on problem solving and decision-making skills.
- Analyze factors influencing personality development.
- Evaluate strategies to manage common sources of stress for individuals and families.

Outcomes

- Strengthen and maintain family relationships and reduce disruptive conditions that destabilize families.
- Effective communicators and give them the knowledge and skills to face the many challenges of today's families.

Course Content :

- Why LIFE SKILLS? Measurement; Personal Development and Personality Development ; Interpersonal Communication & Intra-personal Communication
- Leadership – Aspects and features ; Teamwork – Dynamics and necessary features Work Habits – Effective and proactive
- Rights & Responsibilities – Society, family, work place – work ethics; Financial Fitness – expenditure and income balance – fiscal discipline individual; Exploring Entrepreneurship – business ideas and helping the enterprises
- Civic Engagement – constant connect with the surroundings – one's own role; Harmony & Stress Management – Work-life balances – time management – anger and frustration management
- Culture, Grooming and Planning – cultural diversity and understanding one's own position; Understanding the big picture and the micro-cosmos – perceptional differences; Relationships –Sex and Sexuality – Gender sensitivity and sexist language – ethics
- Health, Hygiene and Self care – fitness and food Empathy, Sympathy, Apathy – Keys to world of happiness – anticipation, expectation, eligibilities and dreams

Venue : B-47, VIEW

Resource Person

Dr. V. Radha Krishna Murthy

Soft skills trainer, JCI

Course Co-ordinator

Mr. S. Ravi Kumar

Asst. Professor, Department of B S & H

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

Add-on Course on

LIFE SKILLS

11th Sep 2019 to 19th Sep 2019

Duration of the Course : 36 hrs

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DEPARTMENT OF

BASIC SCIENCES & HUMANITIES

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About the Course

Life skills are abilities that help us to deal effectively with the demands and challenges of life. They may also be called psychosocial skills, as they are psychological in nature and include thinking and behavioral processes. Life skills can be represented as behavioral, cognitive, or interpersonal skills that facilitate individuals to succeed in several sectors of life.

Objectives :

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

- familiarize students with basic aspects of life skills and its conceptual treatment and practical strategies
- Develop general self awareness & self expression
- Cultivate emotional awareness & emotional management
- Improve social awareness within family and friends' context

Outcomes

- Develop and exhibit and accurate sense of self.
- Develop and nurture a deep understanding of personal motivation.
- Develop an understanding of and practice personal and professional responsibility.
- Demonstrate knowledge of personal beliefs and values and a commitment to continuing personal reflection and reassessment.

Course Content :

- Etiquette and rules & regulations; Need for propriety and decency; Basic etiquette and its importance; Understanding different communication styles Verbal and non verbal cues.
- Saying and doing the right things the art and science of entertaining and socializing recognition of personal space and workplace decorum & dignity; effect of NO etiquette.
- Dress for success: Looking your best business travel, trade shows handling office conditions and colleagues Gossip handling.
- International etiquette; Being personal yet professional; Personal branding; Corporate protocol
- Active listening and focused speaking noise management and understanding silences Presentations ; E-mail etiquette building rapport and networking stress control measures and cool tips.
- Health and hygiene factors; Role of emotional intelligence & temper conversations; Telephone etiquette & cubical etiquette Social skills and the well being.

Venue : B-47, VIEW

Resource Person

Mr. S. Ravi Kanth Reddy

Master Trainer, JCI

Course Co-ordinator

Mr. Sk. Chaitanya

Asst. Professor, Department of B S & H

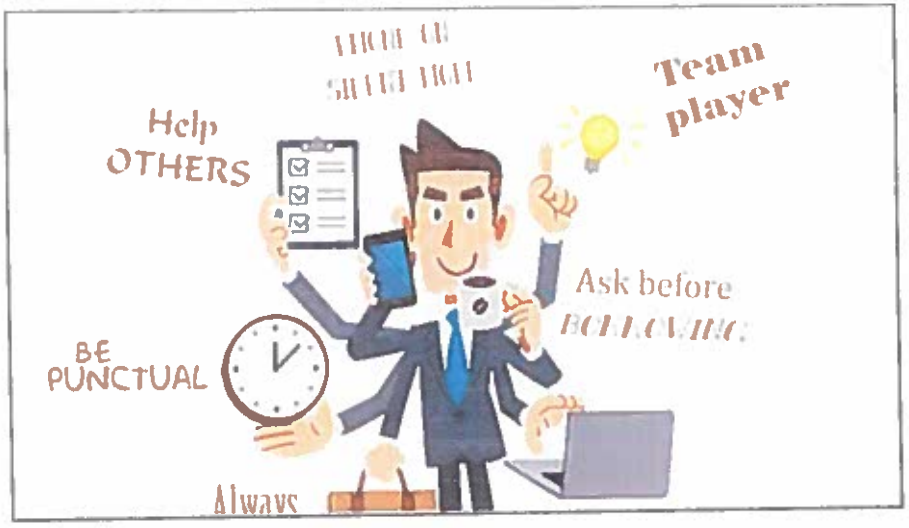
PRINCIPAL
Vignan's Institute of
Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add on Course on

OFFICE ETIQUETTE

8th Feb 2020 to 14th Feb 2020

Duration of the Course : 36 hrs



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About the Course

OFFICE etiquette is important because it **creates a professional, mutually respectful atmosphere and improves communication**, which helps an office serve as a productive place. People feel better about their jobs when they feel respected, and that translates into better customer relationships as well.

Objectives :

- Enhance relationships in the workplace.
- Promote business growth.
- Enhance impression.
- Help professionals gain business travel etiquette.
- Enhance non-verbal communication.

Outcomes

- Enhance relationships in the workplace.
- Promote business growth.
- Enhance impression.
- Help professionals gain business travel etiquette.
- Enhance non-verbal communication.

Outcomes

The student shall be able to

- Build spreadsheets to perform calculations, display data, conduct analysis, and explore what-if scenarios.
- Design and construct databases to store, extract, and analyze scientific and real world data.
- Create scientific and technical documents incorporating equations, images, tables, and bibliographies.

Course Content :

- Unit 1-Introduction,Generating, Updating Toc
- Unit 2-Formatting Toc Entries, Shading Page, Paragraphs, Tables And Texts
- Unit 3-Creating And Update Index
- Unit 4-Figures,Applying Borders To Page, Paragraphs, Tables Or Texts
- Unit 5-Inserting Captions
- Unit 6-Generating Table Of Figures

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

Venue : B-46, VIEW

Resource Person

Dr. K. Vijay Kumar

Assoc. Professor, Dept. of CSE, VIEW

Course Co-ordinator :

Ms. K. Lavanya

Asst. Professor, Department of B S & H, VIEW

Add-on Course

on

REPORT GENERATION USING MS-OFFICE

8th Feb 2020 to 14th Feb 2020

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.

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

About the Department

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

About the Course

This course provides many people to prepare letters, memos and documents. Many secretaries and people can do these very well. However, when they start writing a lengthy report or proposal, they will discover their skills are not sufficient to manage this kind of project and the concepts are also different between writing a short letter and a report.

Objectives :

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

- Know the features which are well suit for a large scale document project.
- Pickup the most efficiency ways to start the project
- Keep the document's format consistent
- Format and design various layouts suitable for reports
- Manage and use templates to standardise their projects

3. Use the JavaScript to develop the dynamic web pages, Construct simple web pages in PHP and to represent data in XML format.

Course Content

- Unit–I Introduction : Concept of WWW, Internet and WWW, HTTP Protocol : Request and Response, Web browser and Web servers, Features of latest version of Web.
- Unit 2 : Web Design : Concepts of effective web design, Web design issues including Browser, Bandwidth and Cache, Display resolution, Look and Feel of the Website, Page Layout and linking, User centric design, Sitemap, Planning and publishing website, Designing effective navigation.
- Unit 3: HTML : Basics of HTML, formatting and fonts, commenting code, color, hyperlink, lists, tables, images, forms, XHTML, Meta tags, Character entities, frames and frame sets, Browser architecture and Web site structure. Overview and features of latest version of HTML.
- Unit 4 : Style sheets : Need for CSS, introduction to CSS, basic syntax and structure, using CSS, background images, colors and properties, manipulating texts, using fonts, borders and boxes, margins, padding lists, positioning using CSS, CSS2, Overview and features of of latest version of CSS.
- Unit 5 : XML : Introduction to XML, uses of XML, simple XML, XML key components, DTD and Schemas, Using XML with application. Transforming XML using XSL and XSLT.
  6H
- Unit 6: PHP : Introduction and basic syntax of PHP, decision and looping with examples, PHP and HTML, Arrays, Functions, Browser control and detection, string, Form processing, Files, Advance Features: Cookies and Sessions

Venue : B-44, VIEW.

Resource Person

Mr. S. Ram Prasad Reddy

Asst. Prof. CSE, VIEW

Course Co-ordinator

Dr. G. Muni Sarala

Assoc. Professor, Department of B S & H

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Visakhapatnam-49

Add-on Course on Basics of Web Development & Coding

8th Feb 2020 to 14th Feb 2020

Duration of the Course : 36 hrs

Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES

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(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

Overview: HTML and CSS go hand in hand for developing flexible, attractively and user friendly websites. HTML (Hyper Text Markup Language) is used to show content on the page where as CSS is used for presenting the page. HTML describes the structure of a Website semantically along with presentation cues, making it a mark-up language, rather than a programming language. HTML allows images and objects to be embedded and can be used to create interactive forms.

Objectives

- To introduce the fundamentals of Internet, and the principles of web design.
- To construct basic websites using HTML and Cascading Style Sheets.
- To build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms.
- To develop modern interactive web applications using PHP, XML and MySQL

Outcomes

1. Describe the concepts of World Wide Web, and the requirements of effective web design.
2. Develop web pages using the HTML and CSS features with different layouts as per need of applications.

- Utilize the Internet Web resources and evaluate on-line e-business system.
- Solve common business problems using appropriate Information Technology applications and systems.
- Identify categories of programs, system software and applications. Organize and work with files and folders.

Course Content

- **Introduction to Computers**: What is computer, Characteristics of Computers, Types of Computers, Generations of Computer, Components of Computer, . Networking
- **Operating System:** Windows 7, Features, Easier ways to work with window, Better Device Management, Windows Home Group
- **MS Word 2010**: Interface Elements, File Menu ,Auto Correct , Home Tab, Insert Tab , Page Layout Tab , Mailings Tab, Review Tab , View Tab
- **MS Excel 2010**: Spreadsheets , Introduction to Excel 2010 File Tab , Home Tab, Insert Tab, Page Layout Tab , Formulas , Data Tab , Review Tab , View Tab , Charts , Conditional formatting , Data Validation , Printing
- **Presentation Tool MS PowerPoint 2010:** Ribbon , Create a new presentation, Slide Views, Apply Transition , Presenting Slide Show , Saving and Printing , Word Art and Shapes , Animating Text and Objects
- **Internet** : What is Internet , What is www , Web Browser Toolbars , URL , Domains , Home Page and History , The Cache , Favourites , How does Search Engine work , Things To Be Cautious About The Internet

Venue : B-14, VIEW.

Resource Person
Mrs. S. Kalyani
Asst. Prof., Dept of IT

Course Co-ordinator
Mr. V. Kondala Rao
Asst. Professor, Department of B S & H

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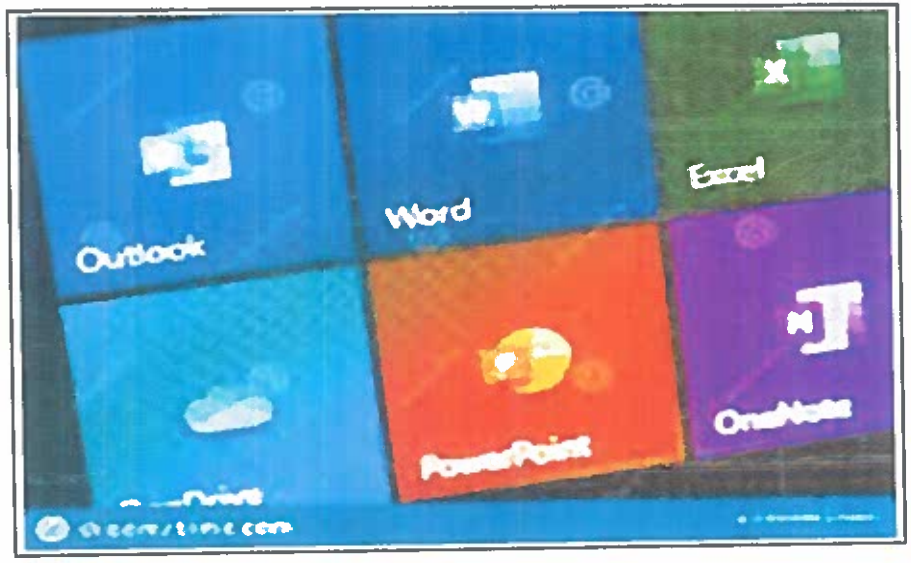
Add on Course on
Microsoft Fundamentals

8th Feb 2020 to 14th Feb 2020

Duration of the Course : 36 hrs



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About the Course

Azure is an open and flexible cloud engineering and computing solution that facilitates application development, data storage, service hosting, and service management. The Azure environment hosts web applications over the internet with the help of Microsoft data centers. In simple words, Azure is a global cloud platform that is available across various regions around the world. In Azure, you can deploy your applications into a variety of data centers around the globe. It is advisable to select a region which is closer to most of your customers because it helps you to reduce latency in network requests.

Objectives :

- Use the most common Microsoft Office programs.
- Create documents for printing and sharing.
- Create and share presentations.

Outcomes

The student shall be able to

❖ Describe the usage of computers and why computers are essential components in business and society.