ADDON COURSES (2020-21) – Brouchers

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COURSE CONTENTS

The following topics to be Covered:

Introduction to Electronics Evolution of electronics engineering and its importance in various engineering aspects Applications of electronics engineering in various sectors Various generations of electronics components, Basic Electronics - Materials Basic Electronics - Energy Bands. Basic Electronics - Semiconductors Basic Electronics - Hall Effect Introduction to Breadboard, Resistors Basic Electronics - Resistors, Circuit Connections in Resistors, Non-linear Resistors Basic Electronics - Linear Resistors, Basic Electronics - Fixed Resistors Introduction to Capacitors and various types Basic Electronics - Capacitors Circuit Connections in Capacitors Examples, Basic Electronics - Fixed Capacitors, Polarized.

Capacitors Introduction to Inductors and various types Basic Electronics - Inductors, Basic Electronics - Inductance, Circuit Connections in Inductors Types of Inductors, Basic Electronics - RF Inductors Basic Electronics - Transformers

Types of Transformers Transformers based on Usage, Transformer Efficiency Basic Electronics - Diodes, Basic Electronics - Junction Diodes Special Purpose Diodes ,Optoelectronic Diodes Basic Electronics - Transistors, Transistor Configurations, Transistor Regions of Operation Transistor Load Line Analysis, types of transistors Basic Electronics - JFET, Basic Electronics - MOSFET LED Use of multimeter and its importance in electronics engineering Soldering accessories, Potentiometers ICs, Introduction to Microcontrollers.

Resource person :

Dr. K. Durga Syam Prasad, Professor,
Department of EEE, VIEW

Programme Venue : Online mode

Co-ordinator :

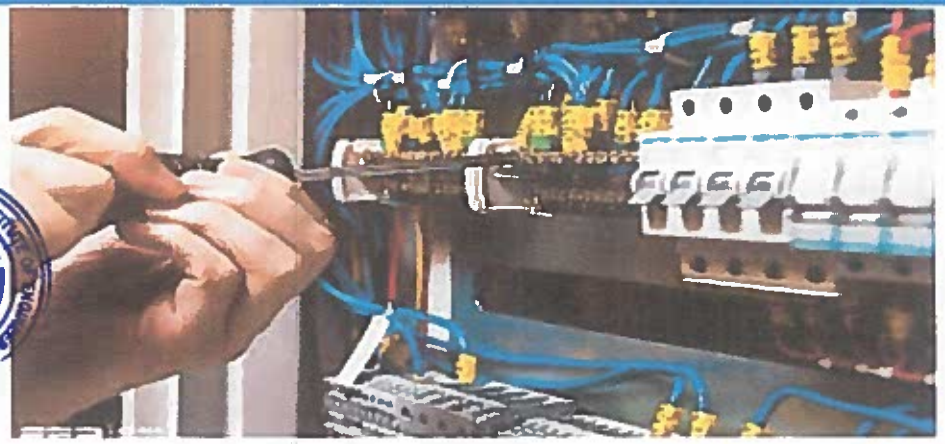
Mr. A. Chandraiah, Assistant Professor
Department of EEE, VIEW, Mobile: 9393990143
Email Id: laxman.544@gmail.com

Addon Course on

Fundamentals on Electrical Home Laboratory

25th November to 2nd December 2020

Duration of the Course : 32 hrs



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Department of Electrical and Electronics Engineering

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

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

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

Vission :

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

Mission :

M1 : To empower the students with skills in current trends through effective teaching- learning process for professional growth..

M2 : To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction.

M3 : To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

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Visakhapatnam-49

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Course Description and Objectives

Electrical wiring appears complicated we have simplified things for you by using simple wiring diagrams which clearly illustrates all the basic components of electrical wiring - starting with incoming supply, consumer panel, wiring components, wiring different circuits like radial, ring, parallel, single phase, three phase and so on

- Providing uninterrupted power supply to all categories of consumers, i.e. assurance of quality in power supply.
- Development of best and modern power system for the territory.

Develop electrical wiring skills in students through systematic training that would enable the students to construct and test various electrical circuits using appropriate electrician tools, wires, protective devices and wiring

COURSE CONTENTS

The following topics to be Covered:

Wiring systems and safety procedures Mention the use of wires and cables, Types of Installations and wiring Accessories. Compare VIR, CTS, PVC, Lead Sheathed, Weather proof Aluminum and copper wires. State the uses of standard wire-gauge. Specify the gauge of wire.

Estimation of Lighting and Power Loads Define and explain various types of service mains, Various types of wiring systems and its explanation and advantages and disadvantages. Prepare layout and draw single line wiring diagrams, specify important materials used under given condition and estimate the quantity of material.

Estimation of OH Lines and Earthing systems List out the various components used in overhead system Selection and sizes calculation for various components used in overhead system, Substation, its main functions and various components. Earthing its importance and materials used for earthing Departmental Test, REC.

Laboratory practices wiring systems Switches in series connection, Switches in parallel connection, Connection practice for one lamp controlled by one switch Connection Practice Stair case wiring connection practice One lamp controlled by one switch connection, Connection practice, One lamp control from two or three places One lamp control from six places Automatic UPS Wiring design and connection , Connection practice for irrigation pump set. Practice connection for fluorescent lamp and ceiling fan. Earthing practice

Resource person :

Dr. P. Ravi Sankar, Professor,
Department of EEE, VIIT

Programme Venue : Online mode

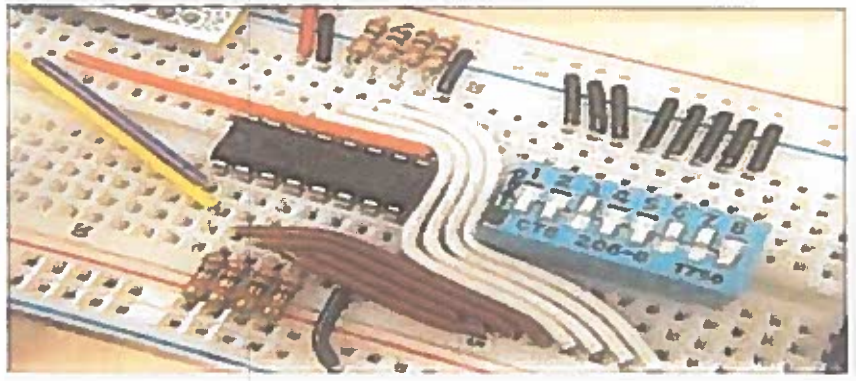
Co-ordinator :

Ms. T. Sushma, Assistant Professor
Department of EEE, VIEW,
Mobile: 9393990143

Addon Course
On
Fundamentals on
Electronic Home Laboratory

25th November to 2nd December 2020

Duration of the Course : 35 hrs



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Mission

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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.

About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Engineering for Women has been active in teaching and research since its inception 2008.The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post graduate course in Power and Industrial Drives. Annual intake of this Department is 120 students. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. 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

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

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

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COURSE CONTENTS

Introduction to embedded system Understanding Embedded System, Overview of basic electronics and digital electronics Microcontroller vs. Microprocessor, Common features of Microcontroller& Comparison b/w, Microprocessor and Microcontroller

Introduction to Arduino Pin configuration and architecture, Device and platform features., Concept of digital and analog ports., Familiarizing with Arduino Interfacing Board , &Introduction to Embedded C and Arduino platform

Arduino data types Variables and constants, Operators, Control Statements, Arrays &Functions Pins Configured as INPUT Pull-up Resistors, Pins Configured as OUTPUT, pin Mode Function, digital Write Function, & analog Read function Incorporating Arduino time delay function &delay Microseconds function, Millis function &micros function Working with Serial Monitor, Line graph via serial monitor, Interfacing a 8 bit LCD to Arduino& Running message display.

Types of Relay Controlling Electrical appliances with electromagnetic relays, Working of a matrix keypad , &Using the keypad library to interface with Arduino, Using serial input, Controlling LEDs with keys &Using a buzzer as an alarm unit Parallel Communication Serial Communication Modules, Types of Serial Communications, Arduino UART, GSM/GPRS Arduino Interfacing

Resource person :

Dr. B. Durga Prasad, Associate Professor, GITAM
Department of EEE

Programme Venue : Online mode

Co-ordinator :

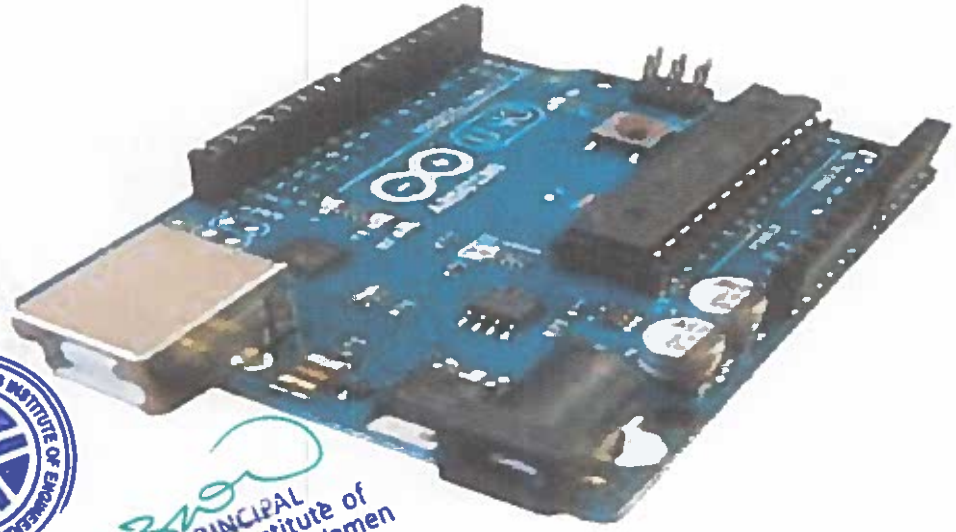
Mr.K. Chiranjeevi, Assistant Professor
Department of EEE, Mobile : 9959482480

Addon Course on

Arduino Programming

17th May - 24th May,2021

Duration of the Course : 35 hrs



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COURSE 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:

- implement of Arduino language for real time process.
- Advantages of Arduino e Applications of Arduino programming

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COURSE CONTENTS

The following topics to be Covered:

Introduction to DC-DC converter Creating a Circuit Diode, Controlled Switches, Reactive component, Inductor, Transformer, Capacitor Issues related to switches, Energy storage – Capacitor, Energy storage – Inductor Non-isolated converters, Primitive Converter, Non-Isolated converter – I, Non-Isolation converter – II, Isolated converters, Isolated Converters - I, Isolated Converters – II, CCM and DCM operation of converters, Conduction Mode, Problem set - I, Problem set – II

Modeling of converters: Modeling DC-DC converters, State space representation - I, State Space representation - II, Circuit Averaging - I, Circuit Averaging - II, State Space Model of Boost Converter.

Controller basics: DC-DC converter controller, Controller Structure, PID Controller - I, PID Controller - II, PID Controller – III, Implementation of PID controller.

Controller design principles : Pulse width modulation, Controller design principles, Basics on design of magnetic, DC-DC Converter Design

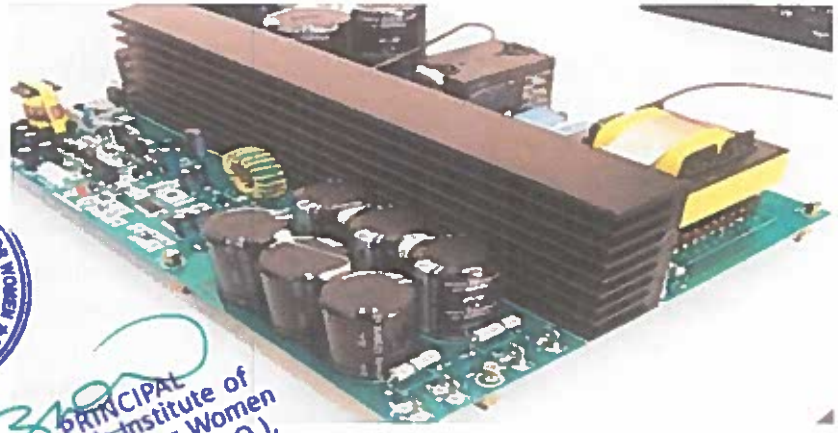
Resource person :
Dr. Akanksha Mishra, Professor,
Department of EEE, VIEW

Programme Venue : Online mode

Co-ordinator :
Mrs. K. Therissa, Assistant Professor
Department of EEE, Mobile : 9949531531

Addon Course
on
Basics of Switched Mode Power Conversion
17th May-24th May, 2021

Duration of the Course : 36 hrs



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

ABOUTTHECOLLEGE:

Vignan'sInstituteofEngineeringForWomen,establishedintheyear2008,has been in the forefront of technical education services especially for womenengineering aspirants. It is offering Graduate and Post Graduate courses inEngineering in the streams of EEE, ECE, IT, CSE & ME. MBA is too offered. Overthe years the institution has registered impressive growth rate in academics and R & D. Since the beginning the student sof the college have madeitaregular 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, playgrounds and hygienically maintained canteen facilities. Located in a lush green ambience the campus offers serene environment forstudies.

ABOUTTHEDEPARTMENT

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

The department of EEE consistently maintaining the results more than 90%. As a part of social responsibilities to uplift the surrounding, the department conducts community Welfare Programs. The Dept has an excellent academic culture with highly qualified senior faculty and faculty from reputed institutions like IIT'S & NIT's. Care and concern is given to every student to enhance their performance and self confidence. To improve leadership and professional qualities the department conducts International and National level Conference & Personality development programs periodically. Dept. transforms students to pursue higher education & research apart from empowering them with training for campus placement.

COURSE OBJECTIVES

Switch mode power converters (SMPCs) play the central role in energy-efficient power conversion in emerging applications, such as electric vehicles, data centers, renewable energy, industrial automation, etc. In this context, selection of suitable control and modulation techniques of SMPCs is very important to meet challenging requirements in terms of transient performance, efficiency, line and load regulation, disturbance rejection, etc. While majority of commercial controller implementations are based on pulse width modulation and small-signal analysis, increasing switching frequencies, linking in part to wide bandgap devices, provide the opportunity to increase operating bandwidth and enhance performance

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:

Understand what a switched-mode converter is and its basic operating principles

Be able to solve for the steady-state voltages and currents of step-down, step-up, inverting, and other power converters Know how to derive an averaged equivalent circuit model and solve for the converter efficiency

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COURSE CONTENTS

The following topics to be Covered:

Introduction to PLC Concepts in of PLC, Building blocks of PLC, Functions of various blocks, limitations of relays & Advantages of PLCs over electromagnetic relays.

Basic operation and principles of PLC Scan Cycle, Memory structures, I/O structure, Programming terminal, power supply, Different programming languages

Arduino data types Basic instructions like latch, master control self-holding relays. Basic instructions like latch, master control self-holding relays. Timer instruction like retentive timers, resetting of timers. Counter instructions like up counter, down counter, resetting of counters Arithmetic Instructions (ADD, SUB, DIV, MUL etc.) MOV instruction, Pins Configured as OUTPUT, RTC (Real Time Clock Function), Watch Dug Timer & Comparison instructions like equal, not equal, greater, greater than equal, less than, less than equal Programming based on basic instructions Programming based on basic instructions, timer, counter

comparison instructions using ladder program. Lab session Object counter On-off control, Car parking, Sequential starting of motors, Traffic light control Motor in forward and reverse direction Star-Delta, DOL Starters Filling of Bottles & amp; Room Automation

Resource person :

Dr. Arundhari Baratam, Professor, VIIT
Department of EEE

Programme Venue : Online mode

Co-ordinator :

Mr.P.V. Sarath, Assistant Professor, VIIT
Department of EEE, Mobile : 9246473210

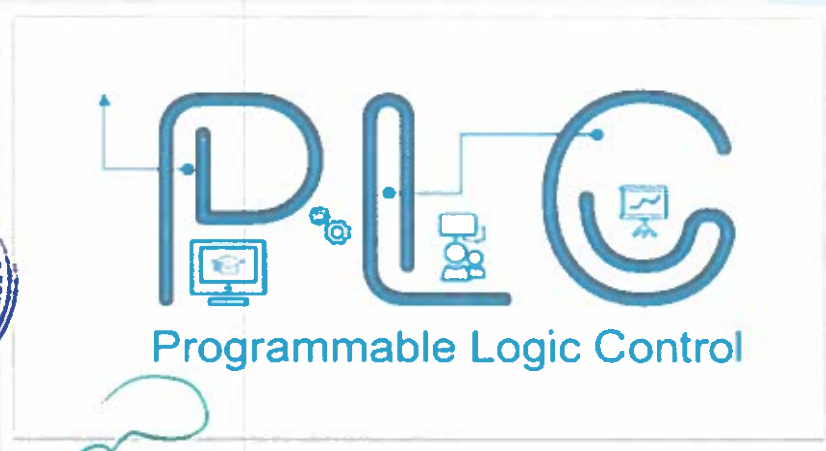
Addon Course

on

BASIC LEVEL PLC PROGRAMING

14th - 21st December 2020

Duration of the Course : 36 hrs



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COURSE 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
- To understand the architecture of PLC
- To implement ladder logic for simple processes.
- To Convert Digital Circuits into PLC program

COURSE OUTCOMES

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

- Students will be able to describe typical components of a Programmable Logic Controller.
- Students will be able to explain the basic concepts of a Programmable Logic Controller.
- Students will be able to state basic PLC terminology and their meanings.

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COURSE CONTENTS

The following topics to be Covered:

Introduction to the electric vehicle Electric Vehicle Basics, All-Electric Vehicles, What EV Models Are Available? How Do These Vehicles "Fuel Up", Equipment Types and Costs, Equipment Types and Costs, Charging Options, How Do Their Emissions Compare with Those of Conventional Vehicles?

Introduction to sources of electric vehicle Batteries, classification of EV batteries, Fuel cells, Schematic of SPFC, Ultra capacitors, Ultrahigh-speed flywheels, Hybridization Introduction to sources of electric vehicle,

What is it. How does it work, What does it mean, Types, Why is it important Examples, Can it replace fossil fuels, Can it be economically viable? Which type is most efficient Introduction to latest technology in battery Battery, evolution of battery, Invention of Battery, The Invention of a Rechargeable Battery, Demand for dry battery, Flexible battery technology, new generation lithium-ion batteries, its advantages, lithium-sulfur batteries, solid state batteries, its advantages.

Introduction to electric motor definition and its operation Various types of motors are used, synchronous induction motor, operating principle, torque speed characteristics, advantages and disadvantages, Brushed DC-motor, operating principle, torque speed characteristics, advantages and disadvantages, Brushless DC-motor, operating principle, torque speed characteristics, advantages and disadvantages, Controllers for various motors.

Simulation model of implementation with controllers Simulation of vehicle body, Simulation of dc motor and its controller, Simulation of driver controller, Simulation of battery energy storage system Real time proto type model design, design parameters Selection of electric vehicle and its design for particular requirement, Design of driver controller, and route map

Resource person :

Dr. Y. Bhaskar S.S. Gupta, Assistant Professor,
Department of EEE, VIEW

Co-ordinator :

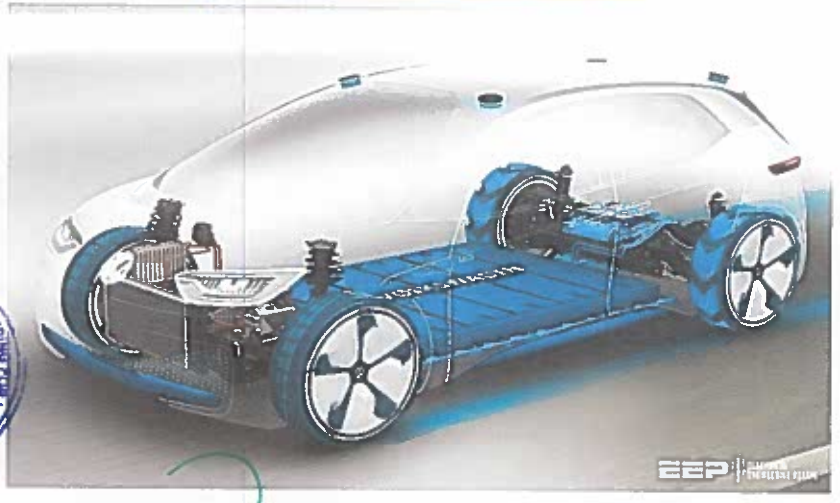
Mrs. V. Avinash, Assistant Professor
Department of EEE

Addon Course
On
E-VEHICLE DESIGN

14th-21st December,2021

Programme Venue : Online mode

Duration of the Course : 36 hrs



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

Organized by

Department of Electrical and Electronics Engineering

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

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.

Vission :

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

Mission :

M1 : To empower the students with skills in current trends through effective teaching- learning process for professional growth..

M2 : To foster an eco-system for higher education and research in Electrical Engineering through constant industry interaction.

M3 : To facilitate practical expertise in enterprise development and energy environment by promoting innovation and social consciousness.

About the Department

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. 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

Vission :

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

Mission :

M1 : To empower the students with skills in current trends through effective teaching- learning process for professional growth..

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ABOUT COURSE AND COURSE OBJECTIVES

This course initiates candidates into the emerging area of Electric Vehicles and helps learn the Basics of Battery driven Electric Vehicle and its Dynamics, Motors, Power Electronics, Batteries, Charging etc. The program consists of instructor led live lecture sessions and demonstrations This Course is used to Develop the practical knowledge and skill on Motor, Controller, Battery Pack Design, BMS, Charger equipment's and Charging Station. This course discuss about various Industrial scenario and business opportunities and analyze various electric drives suitable for hybrid electric vehicles.

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Course Content

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

- Understand the architecture of E-Vehicle
- Able to know the specific source for the E-vehicle
- Able to convert topology for E-Vehicle
- Understand the Simulink model environment of E-Vehicle Able to know the hardware proto type model

Course Outcomes

1. Able to understand to create 2D and 3-D Models.

2. Able to apply tools for creating complex surfaces.

Course Content

- Viewports, Named Views, Thickness and Elevation
- AutoCAD 3D, Visualizing Your Model, AutoCAD 3D Z Coordinates, User Coordinate System,
- AutoCAD 3D Model Objects, 2D Solids and 3D Faces, Basic 3D Surfaces
- AutoCAD - Complex Surfaces, Work with Associative Surfaces and Constraints Creating Solids
- AutoCAD - Work with Associative Surfaces and Constraints, Render Commands

Resource person

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

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Visakhapatnam-49

Program Venue: Project Lab : C-

Co-ordinator

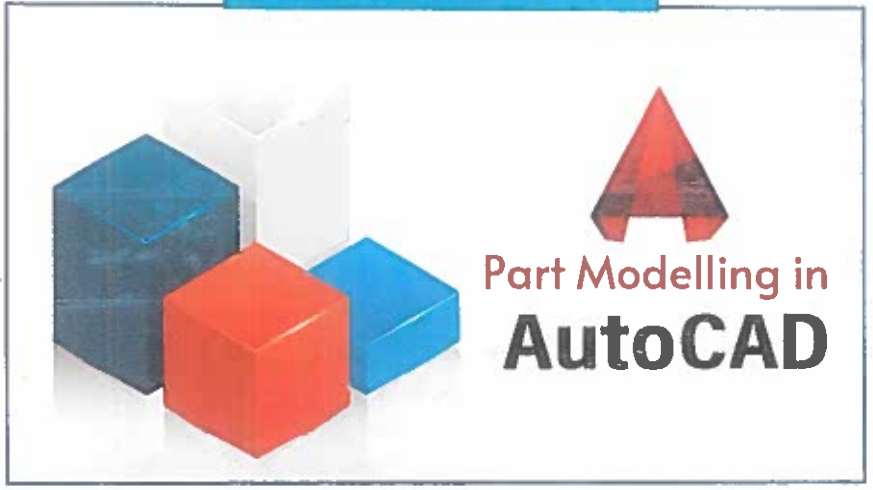
For Registration:
Mr. M.Eswar Teja,
Assistant Professor
Department of mechanical Engineering
Mobile:8143233223 Email Id: eswarmech51@gmail.com

Add-on Course on

Part Modelling in AutoCAD

08th Feb 2021 to 12th Feb 2021

Duration of the Course : 35 hrs



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Department of Mechanical Engineering

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

Mission

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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.

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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M3: Develop linkage with organizations for in plant trainings for excellence in teaching, research and consultancy services.
M4: To empower the students with technical knowledge in Mechanical Engineering for pursuing higher education for becoming entrepreneurs/employees of prominent companies and also motivating them towards research to meet the societal needs

Course Description and Objectives

This course "Part Modelling in AutoCAD" teach from the scratch of the Auto-CAD 3D Modeling, Graphical User Interface-GUI features, Creating Solids, Surfaces, editing solids and working drawing from the 3D models. This course have lab session on the creating the Water Tank, we also included a session on how to start with 2D design and complete it with 3D modeling.

This course will direct you for the Next level project's as Building, Mechanical Architecture design.

1. To understand the fundamental concepts of AutoCAD

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

Course Outcomes

1.Able to understand the types of two-phase flow, define properties of two-phase flow, and derive homogeneous flow model.
2. Able to Analyze drift flux model, and explain regions of heat transfer in convective boiling and critical heat flux.

Course Content

- Characterization of two phase flow patterns
- Homogeneous and heterogeneous flow models,
- Suspension of particles in fluids,
- Bubble dynamics
- Boiling and Condensation Heat Transfer
- Homogeneous and heterogeneous nucleation
- Hydrodynamic stability of stratified fluids
- Molecular theory of surface tension
- Contact line dynamics
- Slugg Flow,Annular Flow,Solid-Liquid Flow, Gas-Solid Flow

Resource person

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

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Visakhapatnam-49

Program Venue: Online

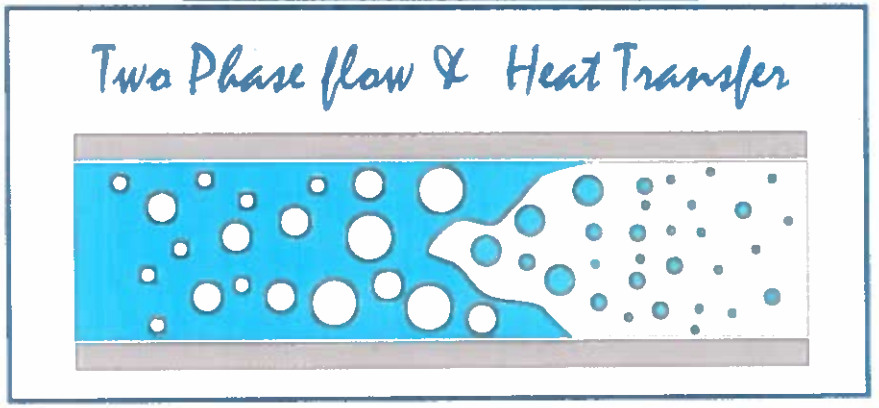
Co-ordinator

For Registration:
Mrs. P. Anusha,
Assistant Professor
Department of mechanical Engineering
Mobile:9490492744 Email Id: bhavi.benny14@gmail.com

Add-on Course on Two Phase flow and Heat Transfer

3rd Aug 2021 to 20th Aug 2021

Duration of the Course : 36 hrs



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Course Description and Objectives

Two phase flow with or without phase change is commonly encountered in a variety of engineering processes. The power generation, nuclear reactor technology, food production, chemical process, aerospace and automotive industries are all driving forces in this complex field. Due to its universality in applications, a thorough understanding of two phase flow is of utmost important.

1. Introduce and describe the processes in internal two-phase flows as well as spray formation and the interaction of sprays with solid surfaces.

2. Understand and model the behavior of two-phase thermal-hydraulic system components.

Course Outcomes

1.Able to understand Computational Fluid Dynamics for Incompressible Flows

2.Ableto apply overview of the concepts in CFD.

Course Content

- Introduction to MATLAB
- MATLAB syntax and commands
- Manipulator motion using image magick.
- Simulation of a 2R Robotic arm manipulator
- Air Standard Cycle Simulator
- Vibrations and Dynamics
- Genetic Algorithm
- Mathemathics and Fluid Dynamics Essentials
- Introduction to MATLAB and Basic CFD Concepts
- Exploring CFD by Solving Standard CFD Problems using FDM
- Introduction to FVM and OpenFOAM
- Solving Standard CFD Problems in OpenFOAM

Resource person

Name of the Resource Person: Dr. Munmun Bhaumik
Associate Professor
GVP, Visakhapatnam

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

Program Venue: Online

Co-ordinator

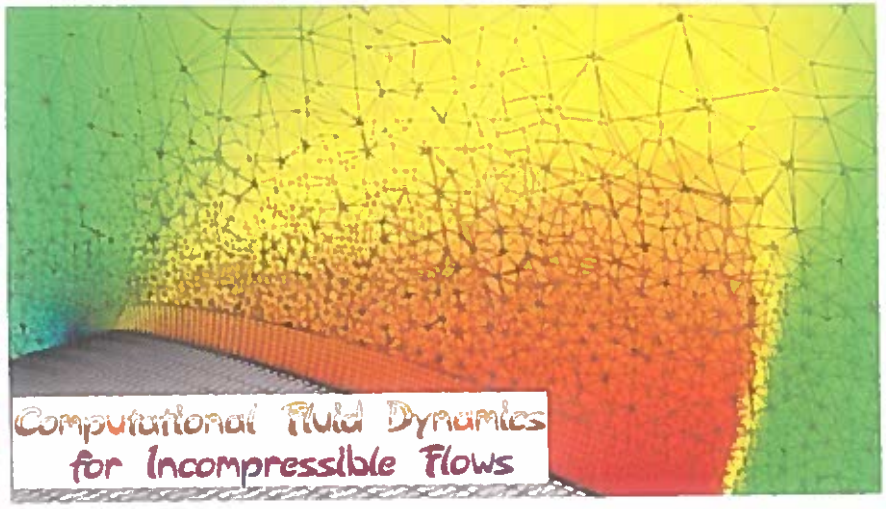
For Registration:
Mr. R. Aditya,
Assistant Professor
Department of mechanical Engineering
Mobile:9963814117 Email Id: adityavardhan158@gmail.com

Add-on Course on

Computational Fluid Dynamics for Incompressible Flows

14th Sep 2021 to 1st Oct 2021

Duration of the Course : 36 hrs



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Department of Mechanical Engineering

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

Mission

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About the Department

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Course Description and Objectives

This course will primarily cover the basics of computational fluid dynamics starting from classification of partial differential equations, linear solvers, finite difference method and finite volume method for discretizing Laplace equation, convective-diffusive equation & Navier-Stokes equations.

A comprehensive program on basics of CFD solver development and applications using Matlab/Octave, Python, CONVERGE-CFD and Ansys Fluent.

Course Outcomes

Students will be able to

1. Formulate algorithms for solving mathematical problems
2. Apply the logical concepts to reduce the number of instructions in a program

Course Content

- Introduction to Problem Solving through programs, Flowcharts, Pseudo codes, The compilation process, Syntax and Semantic errors.
- Variables and Data Types , Arithmetic expressions, Relational Operations, Logical expressions, Introduction to Conditional Branching.
- Conditional Branching, Iterative Loops, Character Arrays and Strings , 2-D arrays, Basic Algorithms including Numerical Algorithms, Functions and Parameter Passing by Value,
- Passing Arrays to Functions, Call by Reference, Recursion, Structures and Pointers. Self-Referential Structures, Introduction to Lists,
- Advanced Topics, Formulate simple algorithms for arithmetic and logical problems, Translate the algorithms to programs, Test and execute the programs, Correct syntax and logical errors, Implement conditional branching, Iteration and recursion, Decompose a problem into functions
- Synthesize a complete program using divide and conquer approach, Use arrays, pointers and structures to formulate algorithms and programs, Apply programming to solve matrix addition and multiplication problems and searching and sorting problems, Apply programming to solve simple numerical method problems

Resource Person :

Dr. P. Vijaya Bharathi,
Associate Professor, VIEW

Venue : Online Mode

Co-ordinator :

Mrs. S. Malathi, Assistant Professor
Department of ECE, Mobile : 9032352626
Email Id: malathibommali@gmail.com

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

Value added Course on PROBLEM SOLVING SKILLS USING C++

19th April 2021 to 24th April 2021

Duration of the Course : 36 Hrs.

PROBLEM SOLVING THROUGH PROGRAMMING IN C

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Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
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Engineering for Women
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About the Department

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

Vision

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

Mission

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

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

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

Course Description and Objectives

This 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. Translate the algorithms to programs (in C language)

Course Outcomes

Students will be able to

1. Discuss the design considerations in PCB
2. Discuss the compensation techniques for op-amp at block level

Course Content

Topics

- Introduction and Objectives of the course, Definition of a system and history of semiconductor, Products and levels of packaging, Packaging aspects of handheld products; Case studies in applications.
- Case Study (continued); Definition of PWB, summary and Questions for review, Semiconductor Packaging Overview, Semiconductor Packages, Electrical Design considerations in systems packaging, CAD for Printed Wiring Boards, Printed Wiring Board Technologies: Board-level packaging aspects
- Surface Mount Technology, Thermal Design considerations in systems packaging, Embedded Passives Technology, Course introduction; Negative feedback control, Negative feedback systems and stability
- Op-amp at the block level; Frequency compensation, Op-amp amplifiers, Components available on an IC, Noise in resistors and MOS transistors, Review of basic amplifier stages

Resource Person :
Mr. T. Pradeep, Applyvolt

Venue : Online Mode

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

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Add on Course on PCB DESIGN AND SIMULATION

19th April 2021 to 24th April 2021

Duration of the Course : 36 Hrs.

Organized by

Department of Electronics and Communication Engineering

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Course Description and Objectives

This is a basic course for designing of PCB using software. PCB (Printed Circuit Board) designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade.. This course enables students to

1. To describe the procedural steps for PCB design
2. To discuss the effects of noise during design and fabrication

Course Outcomes

Students will be able to

1. Practice the programming concepts in Python
2. Simulate the programs in python platform for simple/complex problems

Course Content

Topics

- Motivation for Computing, Variables and Expressions : Design your own calculator, Loops and Conditionals : Hopscotch once again, Lists, Tuples and Conditionals : Lets go on a trip.
- Abstraction Everywhere : Apps in your phone, Counting Candies : Crowd to the rescue, Birthday Paradox : Find your twin, Google Translate : Speak in any Language, Currency Converter : Count your foreign trip expenses.
- Monte Hall : 3 doors and a twist, Sorting : Arrange the books, Searching : Find in seconds, Substitution Cipher : What's the secret, Sentiment Analysis: Analyse your Facebook data, 20 questions game : I can read your mind.
- Permutations : Jumbled Words Spot the similarities : Dobble game, Count the words : Hundreds, Thousands or Millions, Rock, Paper and Scissor : Cheating not allowed
- Lie detector : No lies, only TRUTH, Calculation of the Area : Don't measure, Six degrees of separation : Meet your favourites, Six degrees of separation : Meet your favourites Image Processing : Fun with images
- Snakes and Ladders : Down the memory lane, Recursion : Tower of Hanoi, Page Rank : How Google Works, Introduction to Loops, Solution to Looping Problem
- Design your own calculator, Lists, Tuples and Conditionals : Lets go on a trip, Abstraction Everywhere : Apps in your phone, Google Translate : Speak in any Language, Permutations : Jumbled Words

Resource Person :
Mr. Md. Ajmal, Datapro
Venue : Online Mode

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

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Value Added Course on

PYTHON PROGRAMMING

19th April 2021 to 24th April 2021

Duration of the Course : 36 Hrs.

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

ABOUT THE COLLEGE:

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

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

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Course Description and Objectives

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... This course enables students to

1. To apply python programming language to simple/complex solving tasks.
2. To understand the concepts of contemporary applications, event driven programming and network communication.

Course Outcomes

The Student will be able to

1. Make use of the library functions to code Arduino.
2. Develop a solution to a practical issue using Arduino and its tools.

Course Content

Topics

- Characteristics of Embedding Computing Applications Concept of Real time Systems , Challenges in Embedded System Design, Concept of Real time Systems , Challenges in Embedded System Design, Design Process, Embedded System Architecture
- Overview of IDE Tools- Arduino,KEIL ,Visual Studio,MP LAB
- An Introduction to EDK Tools and Utilities, Project Creation and Management, Platform Generator,Toold Requirement, Tool Usage, Tool options, Output Files, Memory Generation
- Simulation Model Generator, Simulation Library,EDK Library, Xilinx Library, Simulation Models, Memory Intiliazation,Simulating Designs
- Library Generator, Tool Usage, Drivers Generation,MSS Parameters, Virtual Platform Generator, Platform Specification Utility
- Version Management Tools, Format Revision Tool Backup, Bit stream Initializer,Flash Memory Programming,GNU Debugger

Resource Person :
Mr. S. Venkatesh, Electro Pro
Venue : Online Mode
Co-ordinator :
Mr. S. Tarun Prasad, Assistant Professor
Department of ECE, Mobile : 8500357527
Email Id: tarunprasad@gmail.com

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Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
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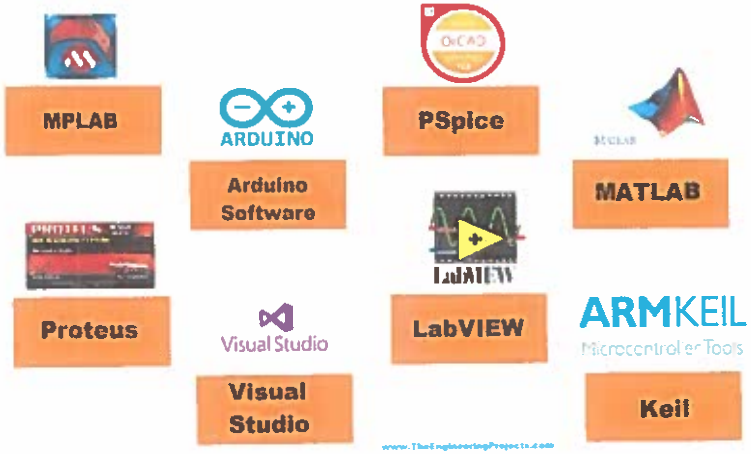
Add-on Course on

EMBEDDED SYSTEM TOOLS

07th September 2020 to 12th September 2020

Duration of the Course : 36 Hrs.

Embedded Systems Software Development Tools



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Course Description and Objectives

The objective of this course is to equip the students with the basic concepts of embedded system, applications in which they are used, 8051 microcontroller programming concepts and various aspects of embedded system design from Hardware and Software points of view .This course enables students to

1. To discuss the specifications, architecture of Arduino.
2. To understand the simulation tools, models and usage of EDK tools.

Course Outcomes

The Student will be able to

1. Construct a circuit by interfacing hardware & software components to Arduino.
2. Develop solution to societal issues by the use of Arduino

Course Content

Topics

- Introduction to Arduino Pin configuration and architecture., Device and platform features., Concept of digital and analog ports,Familiarizing with Arduino Interfacing Board , Introduction to Embedded C and Arduino platform
- Review of Basic Concepts , Arduino data types ,Variables and constants, Operators , Control Statements ,Arrays , Functions
- Arduino i/o Functions ,Pins Configured as INPUT , Pull-up Resistors, Pins Configured as OUTPUT , pinMode() Function , digitalWrite() Function, analogRead() function , Arduino Interrupts
- Incorporating Arduino time , delay() function ,delay Microseconds() function ,millis() function ,micros() function, Working with Serial Monitor, Line graph via serial monitor ,Interfacing a 8 bit LCD to Arduino ,Fixed one line static message display ,Running message display, Using the LCD Library of Arduino.
- Using serial input, Controlling LEDs with keys, Keys as toggle switch, Interfacing a piezo Buzzer ,Using a buzzer as an alarm unit
- Parallel Communication ,Serial Communication Modules , Types of Serial Communications , Arduino UART ,GSM/GPRS Arduino Interfacing

Resource Person :

Mr. K. Ganesh, Pantech

Venue : Online Mode

Co-ordinator :

Mrs. Y. Alekhya, Assistant Professor
Department of ECE, Mobile : 9456789123
Email Id: alekhyaview@gmail.com

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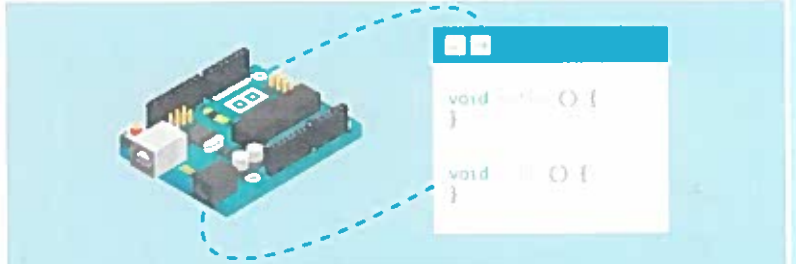
Add on Course on

Introduction to Arduino Programming

07th September 2020 to 12th September 2020

Duration of the Course : 36 Hrs.



BASICS OF ARDUINO PROGRAMMING

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Department of Electronics and Communication Engineering

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Course Description and Objectives

To provide knowledge of different Smart System applications. To familiarize students with Arduino as IDE, programming language & platform. To provide knowledge of Arduino boards and basic components. This course enables students to

1. To explain the basic functions used in programming Arduino.
2. To demonstrate the concepts of interfacing Arduino to input / output devices

Course Outcomes

The Student will be able to

1. Understand the available processors to interface the devices
2. Understand the software tools required to process the system for a specific application

Course Content

Topics

- Introduction to ARM processor and its architecture. Internet Of Things Promises–Definition– Scope–Sensors, IoT Applications--Structure of IoT– IoT Map Device ; IoT Sensors-Characteristics-types. IoT Issues and Challenges, Applications
- Purpose and requirement specification, Process specification, Domain model specification, information model specification, Service specifications, IoT level specification, Functional view specification, Operational view specification, Device and component integration, Application development
- Basic building blocks of and IoT device, Exemplary device: Raspberry Pi, Raspberry Pi interfaces, Programming Raspberry Pi with Python, "% Beagle board and other IoT Devices.
- Cloud Computing, Cloud Middleware, Cloud Standards – Cloud Providers and Systems, Mobile Cloud Computing, The Cloud of Things Architecture.
- Overview of IDE Tools- Arduino,KEIL ,Visual Studio,MP LAB
- Parallel Communication ,Serial Communication Modules , Types of Serial Communications , Arduino UART ,GSM/GPRS Arduino Interfacing

Resource Person :

Mr. Seshu Patnaik, Electro Pro, Vijayawada

Venue : Online Mode

Co-ordinator :

Mr. N.V.Chaitanya, Assistant Professor

Department of ECE, Mobile : 7997011244

Email Id: chaitanyaview70@gmail.com

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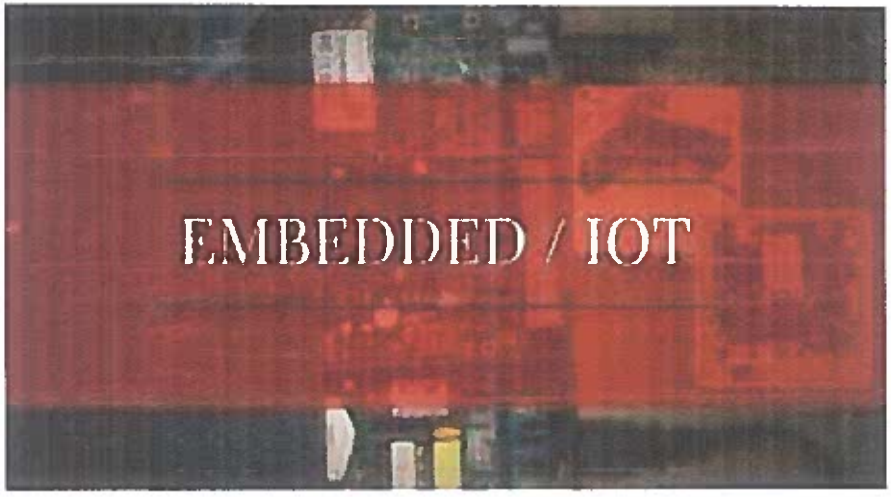
Add-on Course on

EMBEDDED SYSTEM TOOLS FOR IOT APPLICATIONS

07th September 2020 to 12th September 2020

Duration of the Course : 36 Hrs.



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Course Description and Objectives

The overall goal of electronic embedded system design is to balance production costs with development time and cost in view of. Today, IC technology offers many functions onto a single chip that it is indeed possible to implement an "environment-to-environment" system on a single chip. This course enables students to

1. To discuss the purpose and requirement specifications of ARM Processor.
2. To understand the concepts of programming and connecting to cloud for various applications

Course Outcomes

The Student will be able to

1. Design circuit for a specific application in TINKERCAD
2. Model and simulate the designed circuit to solve real-time projects

Course Content

Topics

- TinkerCad Overview,Signup and login to tinkercad
- Tinkercad Dash board,User interface and Navigating Exploring Circuits Learning Basic Circuits
- Micro:bit in TINKERCAD
- Arduino in TINKERCAD
- Bridging 3D Design and Circuits
- Teaching Circuits with TINKERCAD

Resource Person :

Mr. S. Venkatesh, Electro Pro, Visakhapatnam

Venue : Online Mode

Co-ordinator :

Mr. B. Sasikanth, Assistant Professor
Department of ECE, Mobile : 879018965
Email Id: sasis2@gmail.com

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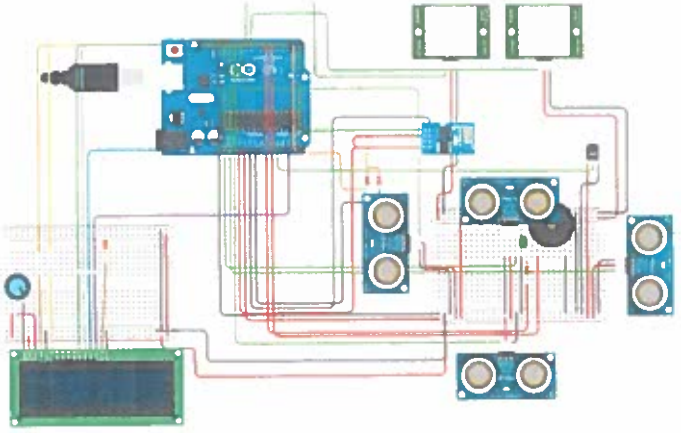
Add on Course on

Tinker CAD for Embedded system design

05th April 2021 to 10th April 2021

Duration of the Course : 36 Hrs.



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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 describe the tools, functions and syntax available in TINKERCAD
2. To discuss the applications of using TINKERCAD for real-time problems

Course Outcomes

The Student will be able to

1. Analyze the characteristics of medical images for improvement in the quality
2. Use the concepts to real-time medical images for better interpretation of the data

Course Content

Topics

- Medical Imaging: What is it, history, rationale, importance, uses, present trends, challenges, Medical Image Formation: Imaging Modalities (X-Ray, MRI,PET, SPECT, Ultrasound); Comparison of Data Resulting from Different Modalities; 2D and 3D Medical Image Data;Dynamic (4D) Medical Image Information
- Image Enhancement: Thresholding; Signal-to-Noise Characteristics; Filtering, Histogram Modeling; Pseudocolor
- Image Analysis: Edge detection; feature extraction; grouping and contour following; dimensional analysis;transforms; segmentation
- Image Display and Visualization: Color Usage; 3DReconstruction; 3D Modeling and Display; Volume Visualization; Multimodality Integration; Animation of Dynamic Processes
- Image Interpretation: Model-Based Vision; Labeling: Recognition; Knowledge-Based Processing; Interactive decision support

Resource Person :

Dr. Puvvada Ramesh, Professor, VIIT

Venue : Online Mode

Co-ordinator :

Mrs. Dhanya. M. Ravi, Assistant Professor

Department of ECE, Mobile : 9959351508

Email Id: dhanu037@gmail.com

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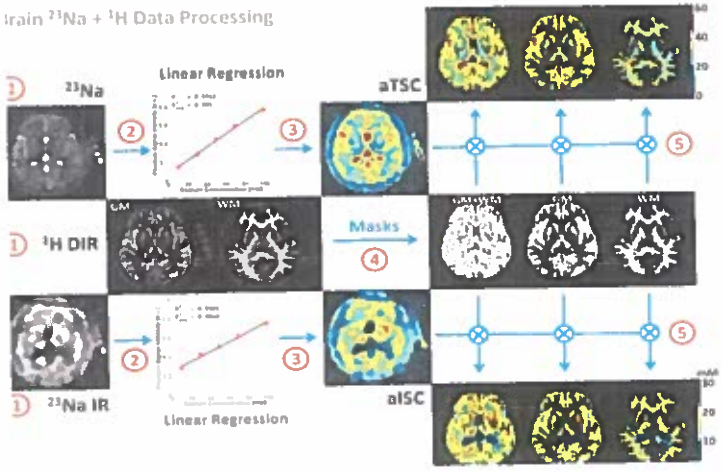
Add-on Course on

MRI IMAGE PROCESSING

05th April 2021 to 10th April 2021

Duration of the Course : 36 Hrs.



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Course Description and Objectives

Medical image processing encompasses the use and exploration of 3D image datasets of the human body, obtained most commonly from a Computed Tomography (CT) or Magnetic Resonance Imaging (MRI) scanner to diagnose pathologies or guide medical interventions such as surgical planning, or for research purposes. This course enables students to

1. To explain the concepts of medical image enhancement, display and visualization.
2. To describe the various processing techniques for medical image analysis

Course Outcomes

The Student will be able to

1. Discuss the filter design concepts to reduce noise during transmission/ reception
2. Discuss the SAR radar polarization effects and processing

Course Content

Topics

- Fundamentals of radar systems, propagating EM waves in space and time, Doppler shift, Range equation, system structure
- Signal Models, Radar cross section of targets and clutter, multipath, statistical signal models, Swerling models
- Basic waveforms: simple pulse, LFM, coherent pulse trainCoded waveforms: frequency, phase (biphase, Costas), MCW, step-freq.
- Optimum waveforms for time delay, velocity, acceleration measurement accuracy, Sampling rates in range, angle, Doppler, space I/Q imbalance and correction techniques, Matched filter
- MTI as approximation to matched filter for unknown target velocityDFT/pulse Doppler approx to matched filter for known target velocity
- Spotlight SAR and polar format data collection Polar format processing

Resource Person :

Mr. A. Sesha Rao, Scientist, NSTL

Venue : Online Mode

Co-ordinator :

Mr. G.Lakshmana, Assistant Professor
Department of ECE, Mobile : 9701509665
Email Id: lakshmana421@gmail.com

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Add on Course on

Advanced Radar Systems

05th April 2021 to 10th April 2021

Duration of the Course : 36 Hrs.

Organized by

Department of Electronics and Communication Engineering

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

ABOUT THE COLLEGE:

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

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Vision

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

Mission

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

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

M3 : To promote entrepreneurship through creativity and innovation.

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

PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-46.

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

Radar technology has become extremely important in today's world. They help guide the freighters which ship the electronics, clothing, and countless other products we use every day to our shores. This course enables students to

1. To carry out research and development of the RADAR systems design
2. To study the principles of operation of various blocks of Radar systems and Radar Range equation in detail

Course Outcomes

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

- Interpret simple R scripts.
- Describe and summarize basic statistics used in data analysis.
- Define suitable data analysis workflows.
- Evaluate the main variables in the experimental design of a project.

Course Contents

- Introduction to R Programming
- R Programming Applications
- R software Installation, Basic variables, Data Types, Operators.
- Decision and loops
- Control Flow,Data Structures and Descriptive Statistics
- Functions and Measures of Variability
- R Programming and Graphics, Case Study

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

Resource Person

Name of the Resource Person: Mr. J.Abraham,
Data Analyst,Unisoft Technoologies,
Hyderabad

Program Venue: Advanced Programming Lab B-15

Faculty Coordinator

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

Add on Course
on

Hands-On Programming with R

07th Dec 2020 to 12th Dec 2020

Duration of the Course : 36 hrs

Organized
by

Department of Computer Science and Engineering

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PRINCIPAL
Vignan's Institute of Engineering for Women
K. Kancheta, VSEZ
Visakhapatnam

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 covers practical issues in statistical computing which includes programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, and organizing and commenting R code.

- Master the use of the R and R Studio interactive environment.
- Expand R by installing R packages.
- Explore and understand how to use the R documentation.
- Read Structured Data into R from various sources.
- Understand the different data types in R.

Course Outcomes

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

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

Course Contents

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

Resource Person

Name of the Resource Person: Dr. A.S.N. Chakravarthy,
Asst.Prof, Department of CSE,
UCEV-JNTUK

Program Venue: Basic Programming Lab B-II

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

Faculty Coordinator

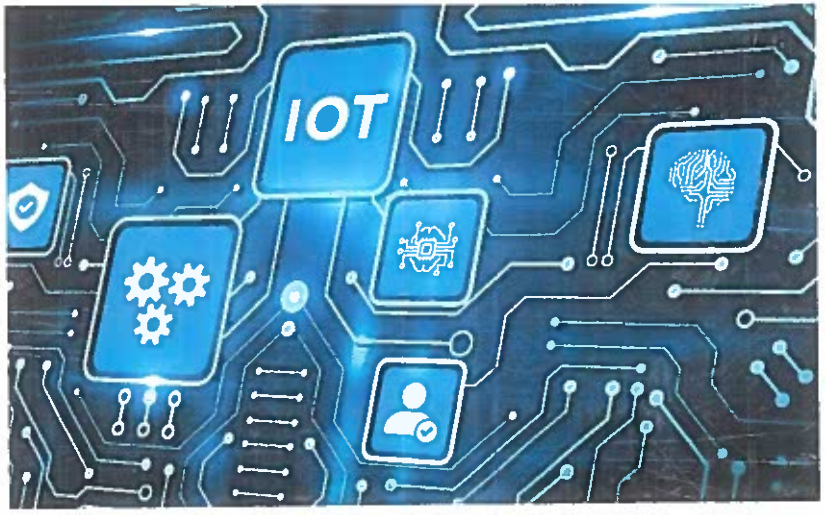
For Registration:

Mrs. Sheik Rahamuinissa
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on
Introduction to Internet of Things (IoT)

07th Dec 2020 to 12th Dec 2020

Duration of the Course : 36 hrs



Organized
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Department of Computer Science and Engineering

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Visakhapatnam-530 049

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Course Description and Objectives

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

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

Course Outcomes

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

- Install and configure Android application development tools.
- Design and develop user interfaces for the Android platform.
- Save state information across important operating system events.
- Apply Java programming concepts to Android application development.

Course Contents

- Android Development Environment, Factors in Developing Mobile Applications, Mobile Software, Frameworks and Tools
- Generic UI Development, Android User, VUIs and Mobile Apps, Text-to-Speech Techniques, , Multichannel and Multimodial UIs
- Android Intents and Services, Storing and Retrieving Data, Synchronization of Data, Working with a Content Provider, Communications Via Network and the Web State Machine.
- Wireless Connectivity and Mobile Apps, Android Telephony, Notifications and Alarms, Performance and Memory Management,Performance and Multithreading, Graphics and UI Performance.
- Android Graphics and Multimedia, Mobile Agents and Peer-to-Peer Architecture,
- Android Multimedia Location, Mobility and Location Based Services

Android Field Service App, Security and Hacking , Active Transactions

Resource Person

Name of the Resource Person: Mrs.N.Maheswari, Mrs.M.Hema Kumari
Technical Trainers ,APSSDC

Program Venue: Data Base design Lab C-22

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

Faculty Coordinator

For Registration:

Mr. A. Maheswara Rao
Assistant Professor
Department of Computer Science and Engineering

Add - on Course on

Android UI Design

07th Dec 2020 to 12th Dec 2020

Duration of the Course : 36 hrs

Organized by

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

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Course Description and Objectives

The course discusses the principles and issues associated with mobile application development using Android as the development platform. Topics covered will include Android application components ICC, UI, design, data storage, asynchronous processing, Android sensing, 2D graphics, and Android security.

- Describe lifecycle and components of an Android application and their communication.
- Develop simple to complex Android applications using various Android UI elements and with data storage using SQLite Databases.
- Describe various security issues in Android applications

Course Outcomes

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

- Formulate complex problems using appropriate graph-theoretic terminology.
- Apply sophisticated mathematical methods in the setting of graph theory.
- Apply critical thinking in the field of graph theory.

Course Contents

- Introduction to Graphs & its Applications, Basics of Paths, Cycles and Trails, Connection, Bipartite Graphs, EulerianCircuits,Vertex Degrees and Counting, Degree-sum formula.
- Trees and Distance, Properties of Trees, Spanning Trees and Enumeration, Matrix-tree computation, Cayley's Formula, Prufer code.
- Matchings and Covers, Hall's Condition, Min-Max Theorem, Independent Sets, Covers and Maximum Bipartite Matching, Augmenting Path Algorithm, Weighted Bipartite Matching
- Stable Matchings and Faster Bipartite Matching, Factors & Perfect Matching in General Graphs, Matching in General Graphs: Edmonds' Blossom Algorithm, Connectivity and Paths: Cuts and Connectivity, k-Connected Graphs, Network Flow Ford-Fulkerson Labeling Algorithm, Max-Flow Min-cut Theorem,
- Menger's Proof using Max-Flow Min-Cut Theorem.Vertex Coloring and Upper Bounds, Brooks' Theorem and Color-Critical Graphs.

  Line Graphs and Edge-coloring, Hamiltonian Graph, Traveling Salesman Problem and NP-Completeness, Dominating Sets

Resource Person

Name of the Resource Person: Ms. B. Niharika,
Technical Developer, Amazon ,
Bangalore

Venue: Classroom A-11

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

Faculty Coordinator

For Registration:

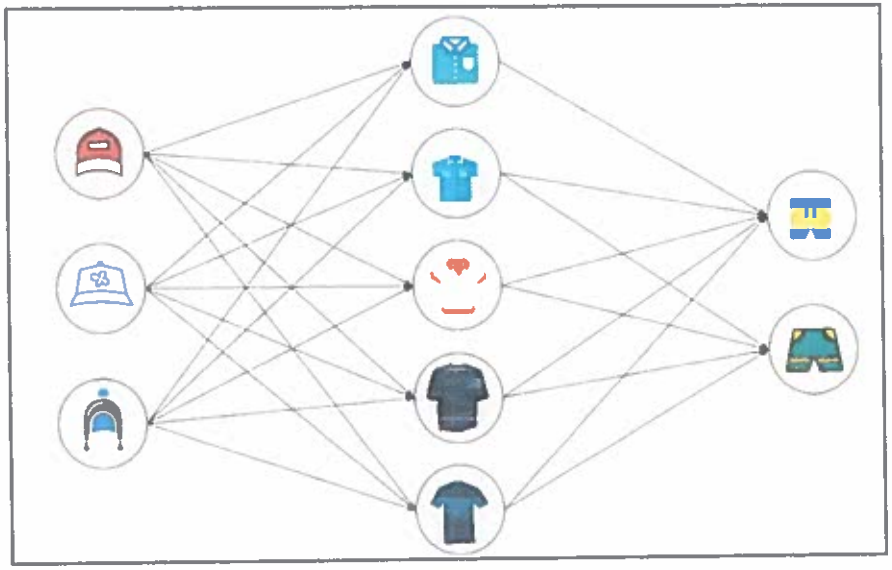
Ms. B.Haritha Laxmi
Assistant Professor
Department of Computer Science and Engineering

Add on Course on

Advanced Graph Theory

31st March 2021 to 06th April 2021

Duration of the Course : 36 hrs



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Course Description and Objectives

Advanced Graph Theory focuses on problem solving using the most important notions of graph theory with an in-depth study of concepts on the applications in the field of computer science. This course provides an in-depth understanding of Graphs and fundamental principles and models underlying the theory, algorithms, and proof techniques in the field of Graph Theory. Emerging applications of Graph Theory in Computer Science domain will be covered for significant impact.

- To understand and apply the fundamental concepts in graph theory
- To apply graph theory-based tools in solving practical problems

Course Outcomes

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

- Understanding of digital image processing fundamentals.
- Ability to apply image processing techniques in both the spatial and frequency (Fourier) domains.
- Ability To understand how digital images are represented, manipulated, encoded and processed with emphasis on algorithm design, implement.

Course Contents

- Introduction and Overview, Visual Features and Representations: Edge, Blobs, Corner Detection; Scale Space and Scale Selection; SIFT, SURF; HoG, LBP, etc.
- Visual Matching:Bag-of-words, VLAD; RANSAC, Hough transform; Pyramid Matching; Optical Flow.
- Convolutional Neural Networks (CNNs), Visualization and Understanding CNNs:Visualization of Kernels; Backprop-to-image/Deconvolution Methods; Deep Dream, Hallucination
- CNNs for Recognition, Verification, Detection, Segmentation:CNNs for Recognition and Verification
- Recurrent Neural Networks (RNNs): Review of RNNs; CNN + RNN Models forVideoUnderstanding:Spatio-temporal Models, Action/Activity Recognition.
- Recent Trends:Zero-shot, One-shot, Few-shot Learning; Self-supervised Learning; Reinforcement Learning in Vision; Other Recent Topics and Applications

Resource Person

Resource Person: Dady Lalitha,
PL/SQL Developer, TCS

Program Venue: Classroom A-15

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

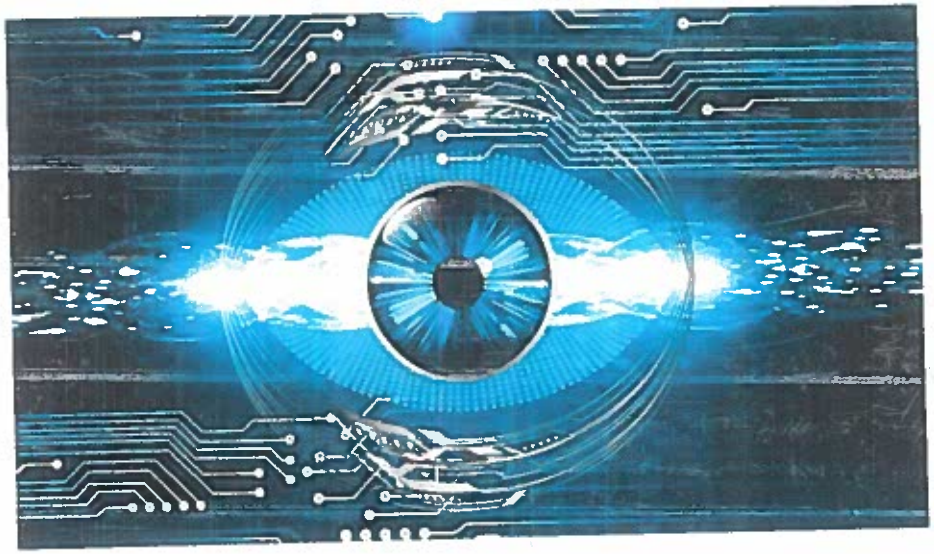
Faculty Coordinator

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

Add - on Course
on
Computer Vision Techniques

31st March 2021 to 6th April 2021

Duration of the Course : 36 hrs



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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.

- The fundamentals of Computer Graphics and Image Processing.
- The concepts related edge detection, segmentation, morphology and image compression methods.

Course Outcomes

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

- Learn the concepts of pattern recognition, including its definition, design cycle, applications, and algorithms.
- Know the important principles of neural networks.
- Understand the basic concepts involved in structural and statistical pattern recognition

Course Contents

- Introduction: definition, systems, and applications.
- Neural networks: history, definition, structure, supervised learning.
- Neural networks: structure: weights and activation functions, examples, matrix operations.
- Neural networks: Hopfield network: structure, example, code
- Feedforwardbackpropagation: structure, example, code. Neural networks pruning: definition and algorithms.
- Hough transform: definition, algorithms, code.
- Object recognition: detection of objects, with examples and code.
- Data clustering: definition, unsupervised learning, algorithms, examples and code.
- Classification: definition and algorithms, k-nearest neighbor algorithm with examples and code.
- Template matching: definition, algorithms, with examples and code.

Resource Person

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

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

Program Venue: Advanced Programming Lab B-15

Faculty Coordinator

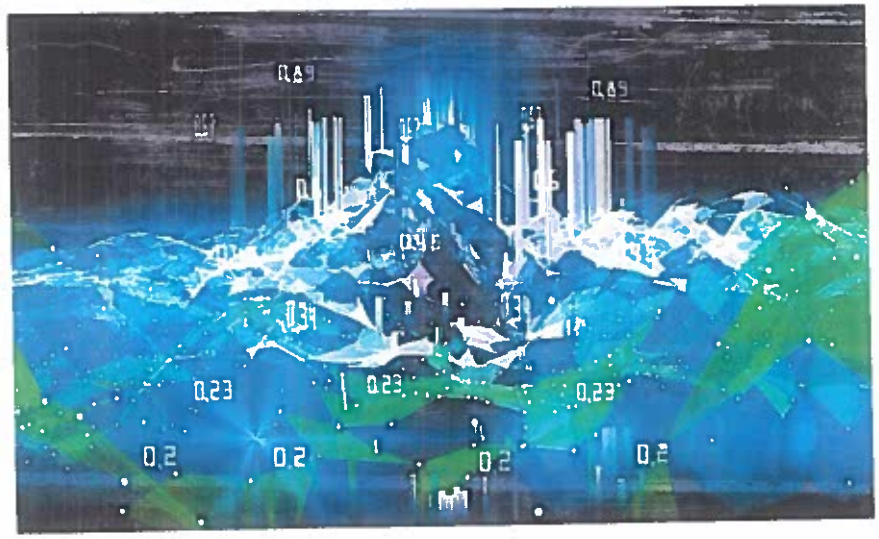
For Registration:

Mrs. J. Hima Bindhu
Assistant Professor
Department of Computer Science and Engineering

Add on Course on Pattern Recognition and it's Applications

31st March 2021 to 6th April 2021

Duration of the Course : 36 hrs



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PRINCIPAL
Vignan's Institute of Engineering for Women
Peta, Visakhapatnam

About the Department

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

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

Vision

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

Mission

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

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

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

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

Course Description and Objectives

This course covers pattern recognition essentials with topics that are suitable for undergraduate levels in computer science and most engineering specialties. It covers wide understanding of different related topics, i.e., pattern recognition systems, preprocessing and feature extraction, theories of supervised and unsupervised learning, object classification and recognition, artificial neural networks, and other topics as well.

- Understand the algorithms used in various phases of pattern recognition systems, including data acquisition, pre-processing, segmentation, feature extraction and classification.
- Understand the techniques used recognize patterns, such as statistical approaches, data clustering, neural networks, etc.
- Knowledge of various applications of pattern recognition in real life, this includes reading research papers and preparing presentations by the students.
- Writing pattern recognition programs and implements the various techniques discussed throughout the course.

Course Outcomes

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

- Grasping the use of neural nets for pattern recognition problems.
- Acquaintance with Kohonen self-organizing maps, Adaptive Resonance Theory and back propagation in multilayer neural nets

Course Contents

1. The Simplest Possible Neural Network: What Is Machine Learning? What Is a Neural Network? Building the Simplest Neural Network In Simple Python, Multiple Input, Multiple Outputs, UseNumPy to Build Neural Networks.
2. Updating Weights In Simplest Neural Network: Simple Error Analysis, Working with 1 Attributes, Small Steps, Extending Simplest Neural Network to Multiple Inputs.
3. Extending to Complete Data Sets: Error vs. Cost, Extending Neural Network to Use Multiple Sample,
4. Introduction to Stacked Arrays, Extending, Back propagation, Coding Examples, Multiple Layers and Back Propagation:Introduction to Deep Learning.
5. Forward Propagation, Back Propagation, Working Example, Parameters Affecting Deep Learning: Normalization, Data Size.
6. Introduction of Keras: Why Keras?, Introduction to Linear Keras, Working Examples.
7. Using DL for Vision – Convolution Neural Networks, The Problems of Pictures, A Solution Implementing Solution In Keras, What You Really Need to Know If You Use Keras.

Resource Person

Name of the Resource Person: Mr. Pradeep,
Ovid Technologies,
Visakhapatnam

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

Program Venue: Advanced Programming Lab B-15

Faculty Coordinator

For Registration:

Mrs. N. Sowjanya Kumari
Assistant Professor
Department of Computer Science and Engineering

Add on Course on

Neural Networks

26th April 2021 to 03rd May 2021

Duration of the Course : 35 hrs

Organized by

Department of Computer Science and Engineering

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

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Vision

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

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

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M1:To empower women engineers through innovative teaching-learning practices.
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Course Description and Objectives

This course introduces the basic models, learning algorithms, and some applications of neural networks. After this course, we should be able to know how to use neural networks for solving different problems related to pattern recognition, function approaximation, data visualization, and so on.

- Grasp the neural networks for pattern classification and association.
- Acquire the basic concepts of competition-based neural nets.
- Comprehend architecture& algorithms for Adaptive Resonance Theory.
- Apply back propagation for multilayer neural nets

Course Outcomes

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

- Explore imitation learning tasks and solutions.
- Recognize current advanced techniques and applications in RL

Course Contents

1. Introduction and Basics of RL, Defining RL Framework and Markov Decision Process.
2. Polices, Value Functions and Bellman Equations, Exploration vs. Exploitation, Code Standards and Libraries used in RL (Python/Keras/Tensorflow)
3. Tabular methods and Q-networks-Planning through the use of Dynamic Programming and Monte Carlo,
4. Temporal-Difference learning methods (TD(0), SARSA, Q-Learning)
5. Deep Q-networks (DQN, DDQN, Dueling DQN, Prioritised Experience Replay) Policy optimization, Introduction to policy-based methods, Vanilla Policy Gradient.

Resource Person

Name of the Resource Person: Mr. B.JayKoti, Mrs. K.Suma, S.Gopi,
Technical Trainers , APSSDC

Program Venue: Class Room A-15

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

Faculty Coordinator

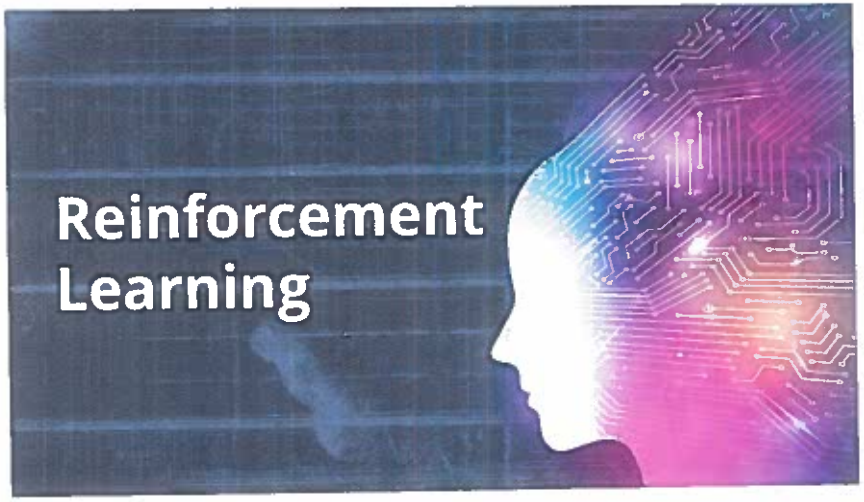
For Registration:

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

Add - on Course
on
Reinforcement Learning

26th April 2021 to 03rd May 2021

Duration of the Course : 35 hrs



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

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Course Description and Objectives

This course is intended for students interested in artificial intelligence. Reinforcement learning is an area of machine learning where an agent learns how to behave in an environment by performing actions and assessing the results. Reinforcement learning is how Google Deep Mind created the Alpha Go system that beat a high-ranking Go player and how Alpha Star become the first artificially intelligent system to defeat a top professional player in StarCraft II.

- Learn how to define RL tasks and the core principles behind the RL, including policies, value functions, deriving Bellman equations.
- Implement in code common algorithms following code standards and libraries used in RL
- Understand and work with tabular methods to solve classical control problems.

Course Outcomes

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

- Analyze various neural network architectures and define the fuzzy systems.
- Understand the genetic algorithm concepts and their applications to construct a solution and implement a Soft Computing solution.

Course Contents

1. Introduction to Soft Computing: Concept of computing systems, "Soft" compiting versus "Hard" computing, Characteristics of Soft computing.
2. Fuzzy logic: Introduction to Fuzzy logic, Fuzzy sets and membership functions, Operations on Fuzzy sets.
3. Defuzzification techniques, Fuzzy logic controller design, Some applications of Fuzzy logic Genetic Algorithms.
4. Basic GA framework and different GA architectures, GA operators: Encoding, Crossover, Selection, Mutation, etc.
5. Multi-objective Optimization Problem Solving: Concept of multi-objective optimization problems (MOOPs) and issues of solving them.
6. Multi-Objective Evolutionary Algorithm (MOEA), Non-Pareto approaches to solve MOOPs, Pareto-based approaches to solve MOOPs.
7. Artificial Neural Networks: Biological neurons and its working, Simulation of biolgical neurons to problem solving, Different ANNs architectures, Applications of ANNs to solve some real life problems.

Resource Person

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

Program Venue: Classroom A-12

Faculty Coordinator

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

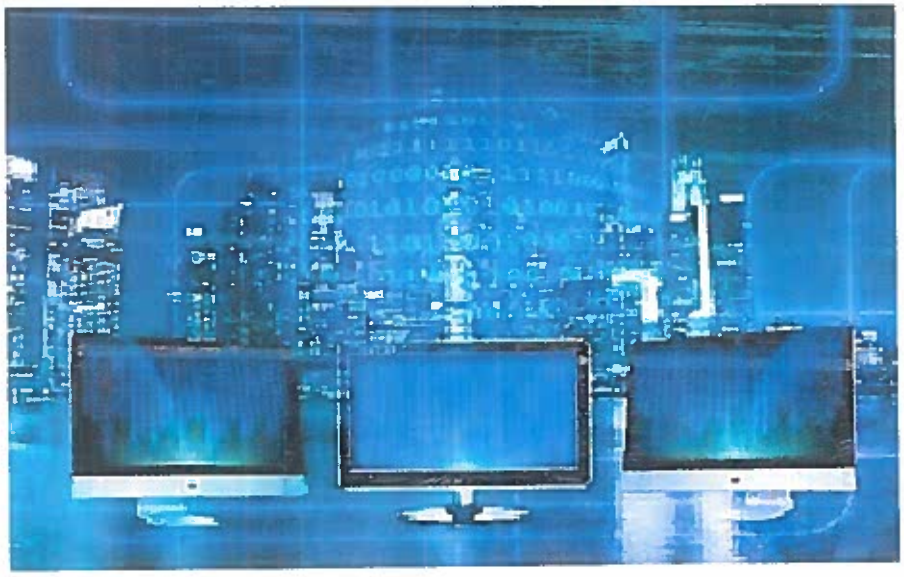
For Registration:

Mr. D. Rajendra Dev
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on
Introduction to Soft Computing

26th April 2021 to 03rd May 2021

Duration of the Course : 35 hrs



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Vignan's Institute of
Engineering for Women
K.L. 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.

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Course Description and Objectives

Soft computing is an emerging approach to computing which parallel the remarkable ability of the human mind to reason and learn in an environment of uncertainty and imprecision.

- To introduce the concepts in Soft Computing such as Artificial Neural Networks.
- To understand Fuzzy logic-based systems, genetic algorithm-based systems and their hybrids.

Course Outcomes

- Apply data science concepts and methods to solve problems in real-world contexts and will communicate these solutions effectively
- Demonstrate proficiency with statistical analysis of data
- Develop the ability to build and assess data-based models

Course Content

- Data Science Introduction,Mathematical & Statistical Skills,
- Coding ,Algorithms used in Machine Learning,
- Optimization Techniques, Data Visualization, Matrix Computations,
- Experimentation, Evaluation and Project Deployment Tools,
- Predictive Analytics and Segmentation using Clustering ,
- Applied Mathematics and Informatics.
- Statistical Foundations for Data Science,

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

Resource person

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

Program Venue: Online Mode

Co-ordinator

For Registration:

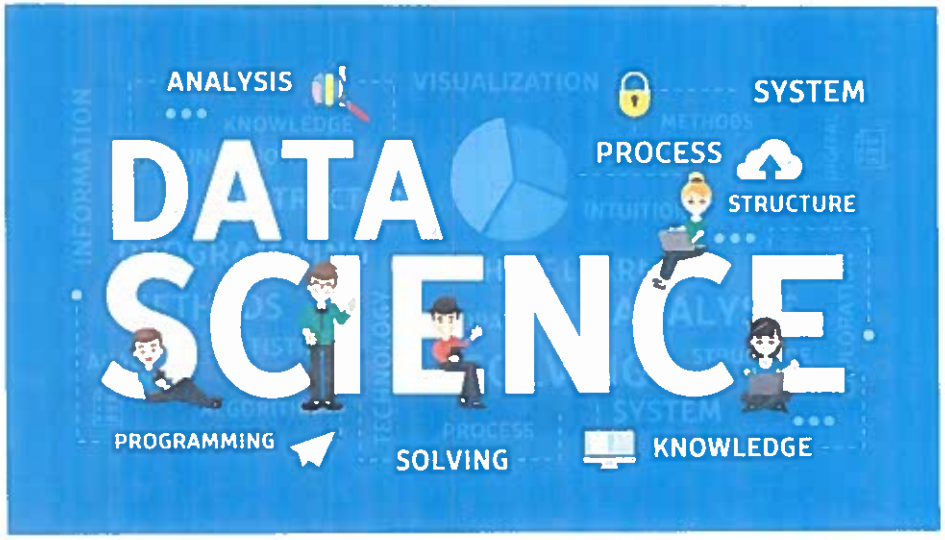
Mr.Ch.Ramasuri A.N
Assistant Professor
Department of Information Technology
Mobile: 9494521752 Email Id: mohanganesh23@gmail.com

Add on Course on

Introduction to Data Science

23rd to 30th November, 2020

Duration of the Course : 35 hrs



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

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About the Department

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Vision

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

Mission

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

Course Description and Objectives

This Course will enable students to learn various aspects of on Data Science and Implementation using different algorithms and techniques used in machine learning. Fundamental coursework on the standards and practices for collecting, organizing, managing, exploring, and using data.

- Compare and contrast segmentation and clustering.
- Explain the various algorithms used in machine learning
- Describe the process of Data visualization.
- Generate simple Statistical summaries using online Tools.

Course Outcomes

- Learn Collection of Technologies to develop web applications.
- Able to Build an end-to-end application with exciting features and testing.
- Able to develop real time business application.

Course Content

- HTML AND JQUERY
- SQL(Structured Query Language)
- NODE.JS
- ReactJS
- Angular JS
- MonogoDB
- DevOps

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

Resource person

Name of the Resource Person: Mr. Imtiaz Mohanty,
Trainer, Brain O Vision

Program Venue: Dennis Ritchie Lab (C-25)

Co-ordinator

For Registration:

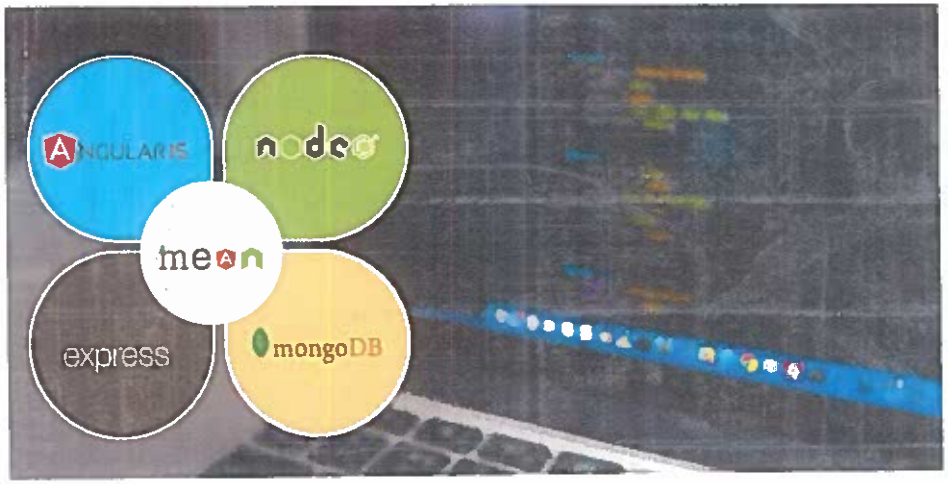
Mr. S. Sagar
Assistant Professor
Department of Information Technology
Mobile: 9966621248 Email Id: sagarsathuluri0@gmail.com

Add on Course on

Mean Stack Web Development

17th to 25th May 2021

Duration of the Course : 40 hrs



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Course Description and Objectives

This Course will enable students to learn Full Stack Web Developer Mean Stack the course provides complete knowledge of software development and testing technologies such as JavaScript, Node. js, Angular, Docker, and Protractor and store data using MongoDB. To provides extensive training in front-end, middleware and back-end software development technologies.

1. To provide software development testing and quality assurance

2. To understand Phase-end and capstone projects are based on real business scenarios.

Course Outcomes

- Implement and manage continuous delivery systems and methodologies on AWS.
- Implement and automate security controls, governance processes, and compliance validation.
- Define and deploy monitoring, metrics, and logging systems on AWS
- Implement systems that are highly available, scalable, and self-healing on the AWS platform.
- Design, manage, and maintain tools to automate operational processes.

Course Content

- Introduced to DevOps cultural philosophies, practices
- Tools that you can use to deliver applications and services
- Hands-on with AWS services
- AWS Cloud9, by setting up a development environment
- The software development lifecycle at different stages
- Hands-on with performing various application tests with AWS
- Automate code deployments with AWS CodeDeploy.
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PRINCIPAL
Vignan's Institute of Engineering for Women
K.K. Peta, VSEZ (P.O.),
Visakhapatnam-49

Resource person

Name of the Resource Person: Dr. Siva Rama Krishna T,
Assistant Professor,
JNTUK-UCEV

Program Venue: Online Mode

Co-ordinator

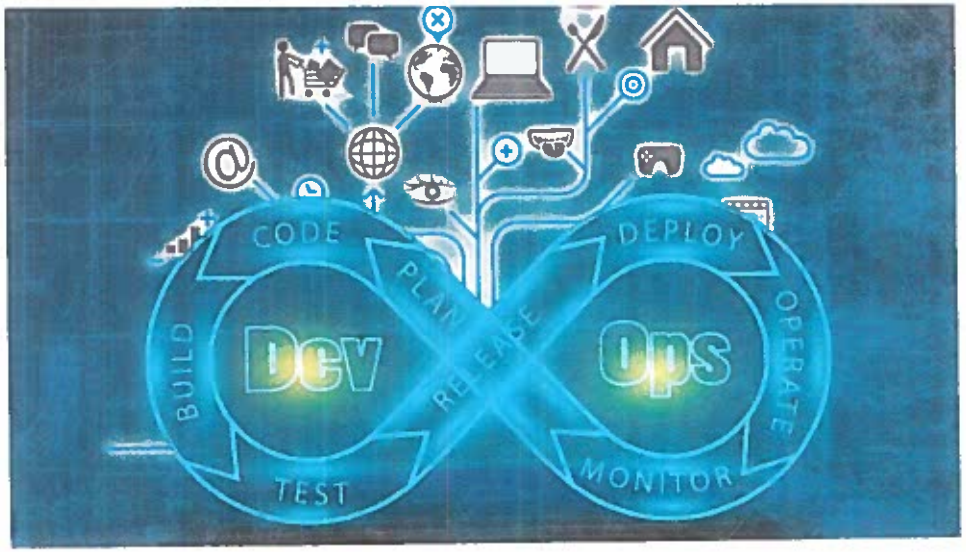
For Registration:

Mrs B. Siva Lakshmi
Assistant Professor
Department of Information Technology
Mobile: 9848986099

Add on Course
on
DevOps on AWS

14th to 22nd December 2020

Duration of the Course : 40 hrs



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Course Description and Objectives

This Course will enable students to learn to use the combination of DevOps cultural philosophies, practices, and tools to increase your organization's ability to develop, deliver, and maintain applications and services at high velocity on AWS. This Course will enable students to learn .

1. To Design and implement an infrastructure on AWS that supports DevOps development projects

2. To Develop, deliver, and maintain applications and services at high velocity on AWS

Course Outcomes

1. To creat awarness amongs students about the special economic zones and its operations.
2. To Influence the students towards enternurship subsidies in special economic zones.

Course Content

- Special Economic Zone Act 2005
  Chief objectives, need & Significance of SEZ.
- National Investment & Manufacturing zone
  SEZ approval mechanism, facilities & incentives
- Significance of SEZ in public and private sector
  Law on Special Economic Zones
- Powers of SEZ commissioner
  SEZ vs EPZ
- Pitfalls/failure of Special Economic Zone
  Remedial measures of Special Economic Zone

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

Resource Person

Name of the Resource Person: **Dr. S. Ramesh,**
Associate Professor,
HOD, MBA, VIEW.

Program Venue: Seminar Hall

Coordinator

For Registration: Mrs.A.Venkata Lakshmi
Assistant Professor
Department of Master of Business Administration
Mobile No:8985783124 Email ID :virothuharitha@gmail.com

Add on Course
on
SPECIAL ECONOMIC ZONE

1st March 2021 to 24th March 2021

Duration of the Course : 40 hrs

Organized
by

Department of Master of Business Administration

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(Approved by AICTE & Affiliated to JNTUK)
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007 Certified Institution
Kapujaggarajupeta, Visakhapatnam-530 049.

About the Institute

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

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

Vision

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

Mission

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

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

M3:To promote entrepreneurship through creativity and innovation.

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

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

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

This course is intended to make students to learn about SEZs which is an engine for economic growth supported by quality infrastructure complemented by an attractive fiscal package, both at the Centre and the State level, with the minimum possible regulations.

1. To create awareness among students about the Special Economic Zone and its operations.

2. To influence the students towards entrepreneurship subsidies in SEZ

Course Outcomes

- Able to understand various channels and activities essential to plan to implement and manage an effective digital marketing strategy for their businesses.
- It able to help traditional marketers who want to fast-track their marketing career or enter the digital world.

Course Content

- Digital Marketing Introduction
- Digital marketing Vs. Traditional marketing
- Website planning process
- Search engine optimization (SEO), Search engines algorithms
- Social media marketing, Google analytics
- Google awards and online advertising awards,
- E-mail marketing, Content marketing
- App store optimisation
- Affiliate marketing,
- Blogging and freelancing to make money

Resource Person

Name of the Resource Person: : Dr. M. Pardha Saradhi
Associate Professor,
Department of MBA, VIEW

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

Program Venue: Online

Coordinator

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

Add on Course
on

DIGITAL MARKETING

15th April 2021 to 24th June 2021

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)
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Course Description and Objectives

This course is designed for practical learning, therefore, most concepts will be linked with hands-on training, where students will be expected to work with marketing datasets, dummy display ads, virtual website optimisation, SEO based on instructions in lectures and class discussions.

1. Entrepreneurs who need to maximize online channels for growing their business.
2. To reach out to potential customers through the use of digital channels.
3. Digital marketing is the process of using digital channels to promote or market products and services to potential customers.

Course Out Comes

The student shall be able to

1. Understand the Torque production Mechanism and control the Speed of DC motors.
2. Analyze the performance of Single phase transformers.
3. Predetermine regulation, losses and efficiency of single phase transformers.
4. Parallel transformers, Control voltages with tap changing methods and achieve three- phase to two- phase transformation.

Course Content

Single-phase Transformer: Types and constructional details –power and distribution transformers– principle of operation –EMF equation – operation on no load and on load – equivalent circuit

3-Phase Transformer: Polyphase connections- Y/Y, Y/ Ä, Ä/Y, Ä/ Ä and open Ä- third harmonics in phase voltages – three winding transformers- transients in switching –off load and on load tap changers- Scott connection.

Auto transformers: Auto transformer – equivalent circuit – comparison with two winding transformers.

Instrument transformers: Types-construction details-potential transformer-current transformers- ratio and phase angle errors, phasor diagram, methods of minimizing errors, testing and applications.

Performance of transformers, Indian standards and Guidelines: Regulation – losses and efficiency – effect of variation of frequency and supply voltage on losses – all day efficiency-separation of losses – parallel operation with equal voltage ratios-Bureau of Indian Standards of power and distribution transformers-guidelines-Safety precaution to perform test.

Testing of power and distribution Transformers at factory and site: Testing at factory-Type tests, Routine tests, Special tests- Testing at site-Pre-commissioning tests, Periodic/ condition monitoring tests, Emergency tests-Tests: Transformer Winding Resistance Measurement-Transformer Ratio Test-polarity test- open circuit and short circuit tests–Sumpner's test -Vector Group Test-Insulation Resistance Test or Megger Test-Dielectric Tests- Induced Voltage Test-Temperature Rise Test-Magnetic Balance Test- Magnetizing Current Test.

Venue : Online mode

Resource Person
Dr. Chandra Sekhar B
Associate Professor

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

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

Add on Course on MANUFACTURING TRANSFORMERS

22nd June 2021 to 28th June 2021

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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Vission

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

About the Department

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

About the Course

Electricity is the basic human need. It is required for social & Economic development of any country. A transformer is an electrical apparatus designed to convert alternating current from one voltage to another. It can be designed to "step up" or "step down" voltages and works on the magnetic induction principle. A transformer has no moving parts and is a completely static solid state device, which insures, under normal operating conditions, a long and trouble-free life. A control transformer is an isolation transformer designed to provide a high degree of secondary voltage stability (regulation) during a short period overload condition typically referred to as inrush to an inductive load. A control transformer is required to supply voltage to a load which requires significantly more current when initially energized than under normal steady state operating conditions. A control transformer is designed to provide secondary voltage stability under a short period of specific overload referred to as in rush.

Objectives :

After studying this lesson, students will be able to:

1. To predetermine the performance of Single Phase Transformers with equivalent circuit models.
2. To understanding the methods of testing of Single phase Transformer.
3. To Analyze the three phase transformers and achieve three phase to two phase conversion

Course Content :

- Introduction to three important decisions - investment decision, financing decision, dividend policy decision.
- Concept and types of cost of capital, cost of various sources of finance, weighted average cost of capital
- Cost of various sources of finance, weighted average cost of capital. Study of operating, financial and combined leverage.
- Nature of capital budgeting. Determination of relevant cash flows, capital budgeting techniques & their limitations.
- Theories of relevance and irrelevance of dividends, dividend-payout ratio, stability of dividends.
- Legal, contractual and internal constraints and restrictions.

Venue : Online mode

Resource Person
Dr. Ch. Hari Govind
Dean, IQAC, VIIT

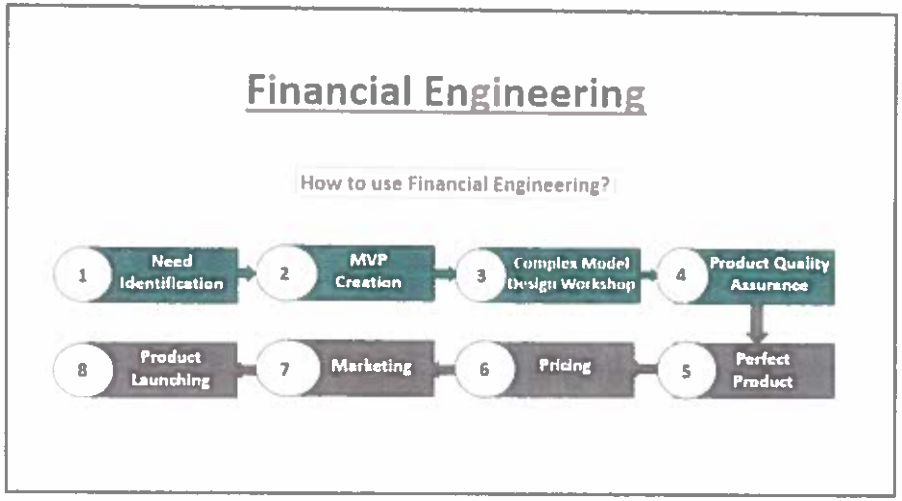
Course Co-ordinator
Mr. S. Giri Babu
Asst Prof.,
Department of B S & H

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

Add-on Course
on
Basic Financial Awareness for Engineers

22nd June 2021 to 28th June 2021

Duration of the Course : 36 hrs



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BASIC SCIENCES & HUMANITIES

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
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Course Description

This course is an introduction Finance for engineers and businesses. It explores the three main accounting documents: cash flow, profit and loss statement, and balance sheet using examples from engineering companies.

Objectives

- Develop knowledge on the allocation, management and funding of financial resources.
- Improving students' understanding of the time value of money concept and the role of a financial manager in the current competitive business scenario.

Course Outcomes

1. Explain the concept of fundamental financial concepts, especially time value of money.
2. Analyze the main ways of raising capital and their respective advantages and disadvantages in different circumstances

Course Content :

- Introduction: Stress and strain and bending forces
- Applications of the equations of static equilibrium
- Space trusses and shear force and bending moment diagrams.
- Cable support systems.
- Coulomb friction and belt friction, applications and problems

Venue : Online mode

Resource Person

Dr. B. Satish
Professor, VIIT

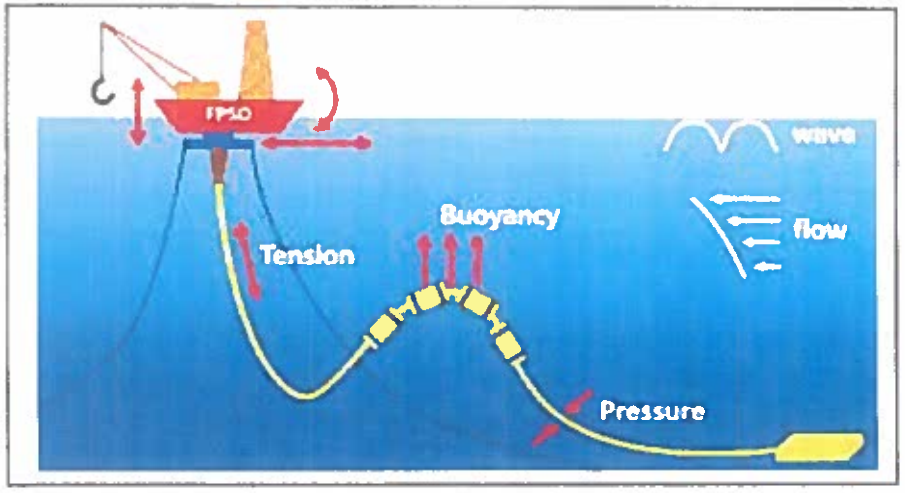
Course Co-ordinator
Dr. K.P. Suhasini
Assoc. Professor, Department of B S & H

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

Add on Course
on
APPLICATIONS IN ENGINEERING MECHANICS

22nd June 2021 to 28th June 2021

Duration of the Course : 36 hrs



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

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About the Course

This course is an introduction to mechanical, electronic and electrical students. It explores the basic knowledge of machines and properties and using from engineering companies.

Objectives

- Provide an in-depth view of the process in machines and internal parts.
- Develop knowledge on the small machines and how to operate.
- Improving students' understanding of the basics in mechanics and working principles.

Course Outcomes

- Understand the basic principles of stress and strain
- Understand the equilibrium forces
- To analyze the friction and bending forces

- Develop proactive responses to stressful situations in the organisation.
- Use coping tips for managing stress both on and off the job and manage stress through diet, sleep and other lifestyle factors

Course Content :

- Introduction to Stress and Stress Management at Workplace, Understanding Stress, Different Kinds of Stress
- Sources of stress:Classification of the causes of stress at work, Factors contributing to stress,Categorising the causes of stress,The main sources of work stress, Recognizing stress in the workplace, Stress within the organisation, Organisational culture and change
- Performance Under Pressure:Dealing With Time Pressure,Dealing With Anger Pressure,Dealing With People Pressure,Dealing With Fatigue Pressure, Dealing With Evaluation Pressure
- Managing Stress in Your Work Group orOrganisation Managing the "Stressed-Out" Employee, Developing Resilience to Stress
- Coping with Stress at workplace: A 5-Step Framework, Coping with Stress,Physical Techniques,Coping with Stress, Behavioural Techniques
- Stress Reduction Techniques: 1. Autogenic Training 2. Biofeedback 3. Relaxation 4. Yoga and Meditation

Venue : Online mode

Resource Person

Mr. Sk. Chaitanya Ch.

Asst. Professor.

Course Co-ordinator

Mr. K. V. V. Ganeswara Rao

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

STRESS MANAGEMENT AT WORKPLACE

22nd June 2021 to 28th June 2021

Duration of the Course : 36 hrs

Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

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

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

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About the Course

Stress is a part of daily living and each individual responds to stress differently. Thus there's no "one size fits all" solution to managing stress. Stress management techniques can teach an individual healthier ways to cope with stress, help reduce its harmful effects, and prevent stress from spiralling out of control again in the future. The goal of stress management is not to eliminate all stress. This course aims to teach the student how to limit the harmful effects of stress while maintaining life's quality and vitality.

Objectives

After studying this lesson, students will be able to:

- Define key terms related to stress, the stress response, and stress management at the workplace.
- Explain the physiological and psychological changes that occur in response to stress at the workplace .
- Identify the positive and negative effects of stress.
- Identify various stress management techniques and the benefits of each technique

Course Out Comes

- Understand the basic principles of stress management and Mange them effectvely at the work place.

Course Content :

- HUMAN RIGHTS : Taking human rights a lens, Akila Radhakrishnan on Women & Human rights, Helen Stacy on Women's Health, Human Rights and International Law, Son preference & Demography.
- EDUCATION : Introduction to Education, Learning vs Schooling, The hope of education and the persistence of discrimination, The power of educating adolescent girls, Additional resources on girl's education.
- CHILDHOOD & ADOLESCENCE : Female genital mutilation/cutting, Guide to Laws and Policies, Introduction to FGM in Sierra Leone, Cultural perspective on FGM
- CHILDHOOD & ADOLESCENCE: Vulnerability to HIV/AIDS, Adolescence change and Vulnerability, Women Poverty and AIDS, About teach AIDS.
- REPRODUCTIVE HEALTH AND RIGHTS: Introduction to reproductive health, Unwanted pregnancy, contraception and Abortion, Adolescent Pregnancy and its outcomes across countries, Reproductive and sexual health, activism for sexual and reproductive rights.
- VIOLENCE AGAINST WOMAN IN THE HOME AND COMMUNITY: Reflections on violence, subordination & sexual control, Women' s learning partnership, Impacts on empowerment, An obastacle to development, Primary prevention strategies, Ending violence against Woman

Venue : Online mode

Resource Person

Dr. S.M. Krishna

Professor, VIIT

Course Co-ordinator

Mr. K. Murali

Asst. Professor, Department of B S & H

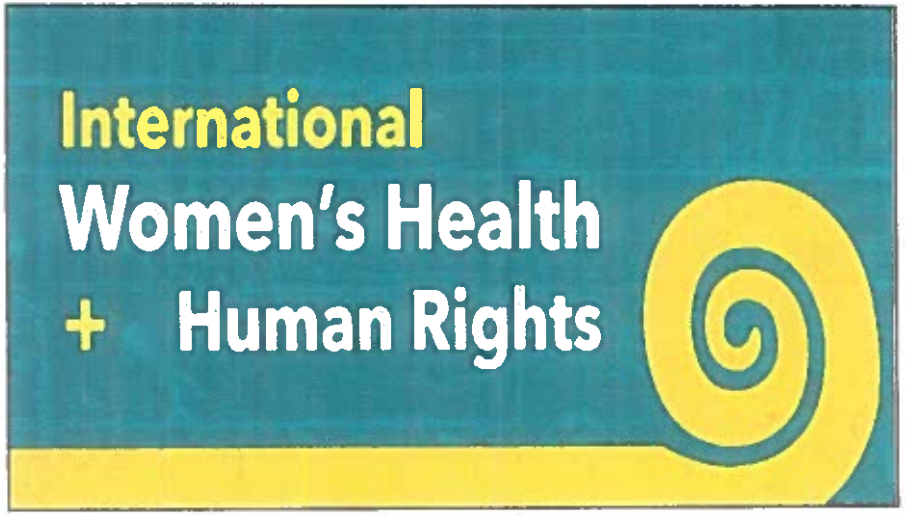
PRINCIPAL
Vignan's Institute of Engineering for Women
K.J.Peta, VSEZ (P.O.),
Visakhapatnam-49.

Add on Course on

WOMEN'S HEALTH & HUMAN RIGHTS

22nd June 2021 to 28th June 2021

Duration of the Course : 36 hrs



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

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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.

Vission

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

Mission

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

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

M3 : To promote entrepreneurship through creativity and innovation.

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

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

About the Department

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

About the Course

COURSE ON WOMEN'S HEALTH AND HUMAN RIGHTS

This course focuses on women's health and human rights issues from infancy through old age, including information about positive interventions relating to those issues. Learners are encouraged to interact with each other through interactive discussions.

Objectives :

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

- To understand common forms of violence against Women
- To recognize and manage violence against Women
- To get awareness about national and International issues in Women's rights/reproductive healthcare

Course Out Comes

- Harmful traditional practices
- Right to education
- Right to Food and nutrition
- Freedom from discrimination
- Violence against Women

Course Content :

- Rethinking communication
- Group development & decision making
- Conflict, Difference & Diversity
- Working in groups
- Leadership - the leader's role
- Providing feed back

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

Venue : Online mode

Resource Person

Dr. V. Radha Krishna Murthy
Soft Skills Trainer, JCI

Course Co-ordinator

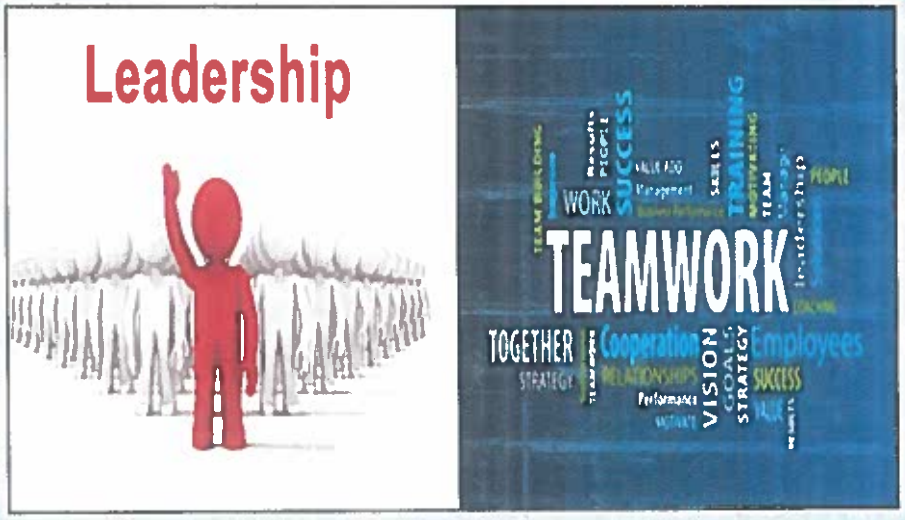
Mr. B. Nagabhushana Rao
Asst. Professor, Department of B S & H

Add-on Course
on

TEAM WORK & LEADERSHIP SKILLS

22nd June 2021 to 28th June 2021

Duration of the Course : 36 hrs



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K.J.Peta, Visakhapatnam

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About the Course

This course provides a practical guide to understanding leadership roles, types and team dynamics. This enables students to learn the leadership techniques and tools that deliver new ideas and quick execution for individuals, teams and entire organizations. Understand how teams develop progressively through different stages.

Objectives :

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

- Increases employee morale and retention,
- Improve productivity,
- Promote better decision making,
- Build better teams,
- Trains future leaders.

Course Out Comes

- Work in teams & lead the team
- Follow ethics in professional career
- Communicate effectively in groups

Course Out Comes

The student shall be able to

- Get Information about the important tools for Engineering Drawing. this will give student basic knowledge of technical drawings professions and means of communications to others.
- Learning how to draw the shapes, angels and lines and others which is essential for engineer

Course Content :

- Introduction: Drawing, Types of Drawing, Artistic Drawing, Engineering Drawing, Purpose of Engineering drawing, Applications of Engineering Drawing, Types of Engineering Drawing
- Lines and Symbols: Conventional Lines, Common Geometric Symbols used in Engineering Drawing, Common Symbols used in Civil Engineering Drawing
- Lettering and Numbering: Letter Styles, Classification of Letters, Technique of Lettering, Single Stroke Lettering, Lettering in Maps.
- Geometric Construction: Geometric Nomenclature, Quadrilateral, Polygon, Techniques of Geometric constructions, How to Bisect a Line or an Arc. How to Locate the Center of a Given Circle.
- Dimensioning: Purpose of Dimensioning, Rules for Dimensioning, Rules of Dimension Lines, Rules of Leaders, Direction of DimensionsScales: Uses of scale, Full Size Scale, Classification of Scales, Diagonal Scale, Necessity of Construction of Scale on Drawing, Worked out Examples of R.F. Calculation

Venue : B-47, Class Room, VIEW

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

Resource Person

Dr. V. Ananda babu
Assoc. Professor, VIEW

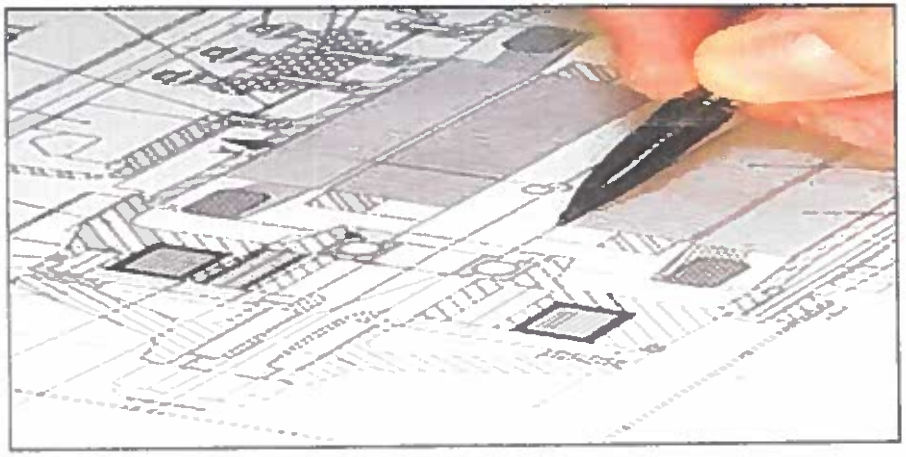
Course Co-ordinator :

Dr. Chandra Sekhar Beera
Assoc. Professor, Department of B S & H

Add on Course on Engineering Drawing for beginners

01st Feb 2021 to 06th Feb 2021

Duration of the Course : 36 hrs



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About the Course

Drawing is the Graphical means of expression of technical details without the barrier of a language. Engineering Drawing is the Universal Language for Engineers

Communication in engineering is necessary for effectively transferring one's ideas to others. While communicating, we use our memory to remember objects, sense organs to perceive objects and mind to imagine objects. Our perception are coloured or modified by our past experiences.

Objectives :

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

- Introduce the students to use drawing instruments and to draw polygons, Engg. Curves
- Introduce the students to use scales and orthographic projections, projections of points & simple lines.
- Make the students draw the projections of the lines inclined to both the planes

- To describe and use software tools in the programming process.
- To apply good programming principles to the design and implementation of C/C++ programs.

Course Content

- Introduction to C and C++) History of C and C++, Overview of Procedural Programming and Object-Orientation Programming, Using main() function, Compiling and Executing Simple Programs in C++.
- Data Types, Variables, Constants, Operators and Basic I/O Declaring, Defining and Initializing Variables, Scope of Variables, Using Named Constants, Keywords, Data Types, Casting of Data Types.
- Expressions, Conditional Statements and Iterative Statements Simple Expressions in C++, Understanding Operators Precedence in Expressions
- Functions and Arrays Utility of functions, Call by Value, Call by Reference.
- Creating and Using One Dimensional Arrays, Use Various types.
- Derived Data Types Understanding utility of structures and unions, Declaring, initializing and using simple structures and unions,

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

Venue : B-14, Class Room, VIEW.

Resource Person
Dr. P. Vijaya Bharathi
Assoc. Prof. VIEW

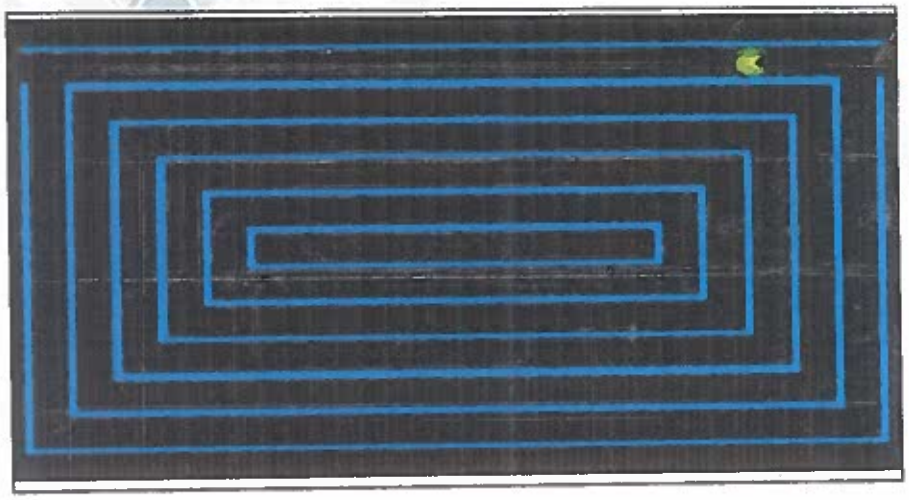
Course Co-ordinator
Dr. K. Chaitanya
Assoc. Professor, Department of B S & H

Add-on Course on

Introduction to Game Programming using C

01st Feb 2021 to 06th Feb 2021

Duration of the Course : 36 hrs



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About the Course

This article is for anyone who is interested in game programming. I will take you through the basics of game programming. Here we are specifically focusing on the classic DOS games. I cover and give examples for: Determining Initial requirements, Developing an Interface, analyzing different elements of the game design in the program that we're going to make, and developing logic for Gameplay.

Objectives :

- Learn the fundamental programming concepts and methodologies which are essential to building good C/C++ programs.
- To practice the fundamental programming methodologies in the C/C++ programming language via laboratory experiences. Microsoft Visual Studio is the programming environment that will used.
- To code, document, test, and implement a well-structured, robust computer program using the C/C++ programming language.
- To write reusable modules (collections of functions

Out Comes

The student shall be able to

- To describe the advantages of a high level language like C/C++, the programming process and the compilation process.

Course Content

- Basic principles of life….. Understand and manage behaviours**Towards a Better Self-Concept**
- Understand the life stages of human development
- Passive, aggressive, and assertive behaviour
- Time management techniques
- Improving decision making
- Developing empathic attitude

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

Venue : B-44, Class Room, VIEW.

Resource Person
Dr. S. Ramesh
Professor, Department of MBA, VIEW

Course Co-ordinator
Dr. Shouri Dominic
Asst. Professor, Department of B S & H

Add on Course on SELF MANAGEMENT

01st Feb 2021 to 06th Feb 2021

Duration of the Course : 36 hrs

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About the Course

This course emphasises on how to think strategically and professionally about career self-management. Through this course one will develop an objective, external view of marketable skills as a solid foundation for building a strong career.With competition for jobs on the rise, a person's continuing employability and career success are increasingly defined by his or her mastery of individual career development and the ability to effectively "manage oneself"

Objectives :

- Develop a greater sense of integrity and strength to accomplish goals
- Build a healthier self-concept to manage issues and events
- Develop strategy towards a greater time-task productivity

Out Comes

The student shall be able to

- ❖ Describe self-management and what skills it demands
- ❖ Identify the behaviours, skills and knowledge that exemplify good self-management in the workplace
- ❖ Improve self-management skills by reflecting on capabilities and implementing practical strategies.

Course outcomes

- Improve productivity
- Lower stress
- Enhance quality of work
- Develop stronger sense of self-efficacy

Course Content

- What is time management? The myths and magic of time- Preparing for marathon, not the sprint – exploring sustainable principles -Effective Planning
- Slicing the pie – how to avoid overdraftSetting goals and objectives – efficiency Vs effectiveness – taking control- The power of the pro-active managerSetting Goals and Objectives
- Prioritizing your workload – urgency vs importancePlanning your day – time management systems explored -Recognizing personal blocks & Managing and making use of Technology -Setting DeadlinesPrinciples of Project time management, Project Scheduling & Project team communication
- Minimizing stress – time management as life-saverDe-cluttering the desktop - Profiling your timeDealing with typical Time Wasters -
- Techniques of Task Prioritization & Prioritizing workload and focusing the key tasks - Ways to say 'NO' assertively- Delegation of Responsibilities
- Spending the right time on right activity - Time Management tips - Action Planning - Check List management - Use of time management software

Venue : B-43, Class Room, VIEW.

Resource Person

Mr. G. Netaji

Asst. Prof., Department of IT, VIEW

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

Course Co-ordinator

Mr. A.P. Phanendra Kumar

Asst. Professor, Department of B S & H

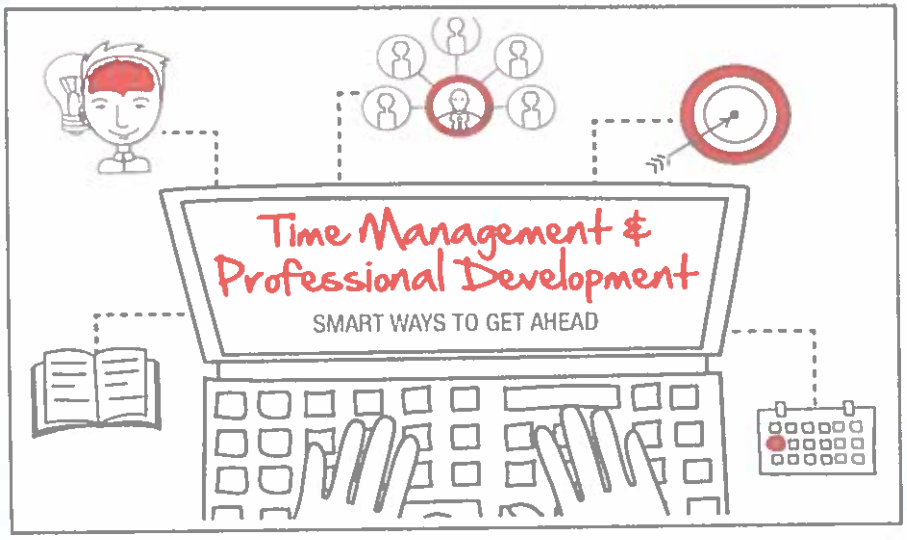
Add-on Course

on

TIME MANAGEMENT for IT PROFESSION

01st Feb 2021 to 06th Feb 2021

Duration of the Course : 36 hrs



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Time management affects performance and productivity at work. It will improve employee efficiency and help to meet deadlines, and produce better quality work. Time management is important for companies to prioritize all the work tasks and achieve the goals faster. Time management is a set of ideologies, practices, expertise, tools and structures that help you use your time to accomplish what you want efficiently and more. Resourceful time management is the key to a successful day, getting most out of it. From handling email to juggling your time on multiple projects, our time management course will benefit you reach your goals by learning how to use your time wisely and more efficiently in an economical way. This will also help you appreciate the importance of prioritization and the power of the word 'NO.' The course takeaways are best practices for prioritizing tasks, conquering procrastination, refining your concentration, and handling frequent distractions.

Objectives :

- Develop effective planning strategies
- Set goals and objectives & deadlines
- Employ delegation skills
- Make use of prioritization concepts