ADDON COURSES (2021-22) – Brochures

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Course Outcomes

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

Course Content

Introduction to Arduino Hardware Overview, Download and Install the Arduino IDE, Arduino IDE and Sketch Overview Understanding Arduino Syntax

Various Basic Industrial Sensors-IR- Analog Sensor IR Digital Sensor, Light Sensor, Basic working Technique of Sensor, Application of Sensor

Blink an LED Without using the delay Function Challenge Discussion, Using Buttons, State Change Detection and the Modulo Operator

Analog I/O and Serial Communications Strings and Text Files, Analog Input, Calibration, Object Oriented Programming

Fundamentals of Computational Device Transistor, Logic Gates, Microprocessor, Microcontroller, Difference B/W Various Computational Devices

Basic LED interfacing and coding Buzzer, LED, RGB interfacing and coding, Motor Driver l293D IC, PC keyboard controlling for LED and motor

Running LEDs Sand Glass Filling of LEDs, Sensor Interfacing, Seven Segment Display, Lab Session

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

RESOURCE PERSON

Dr. PUDI SEKHAR, Professor,
Department of EEE ,VIIT
Venue: Electrical Simulation lab (B-04)

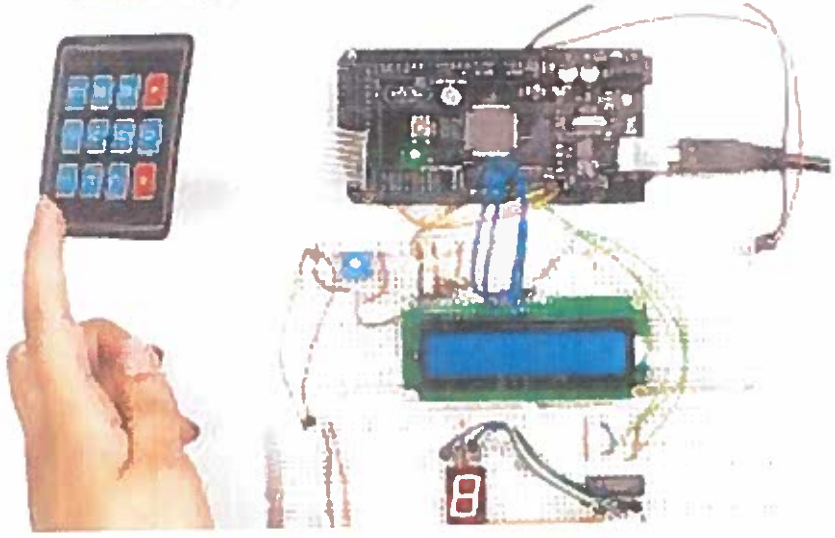
CO-ORDINATOR

Mr. K.V Sri Ram Prasad, Assistant Professor
Department of EEE, VIEW
Mobile : 9246473210

Add on Course
on
ARDUINO AND INTERFACING TO DIFFERENT ELECTRICAL DEVICES

16th December 2021 to 23th December 2021

Duration of the Course : 42 hrs.



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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.

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Vision

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

Mission

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

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

M3 : To promote entrepreneurship through creativity and innovation.

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

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

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Course Description and Objectives

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

- To understand the recent application domains of Arduino in everyday life
- To design and build an actual Arduino.

Course Outcomes

- Develop Program Solving And Programming Capability
- Implement Object-oriented Concepts
- Implement database and GUI applications

Course Contents

Fundamentals of Python, Introduction to Python Running Python Programs, Writing Python Code, Working with Data, Data Types and Variables, Using Numeric Variables, Using String Variables

Input and Output Printing with Parameters, Getting Input from a User, String Formatting

Making Decisions, Logical Expressions Making Decisions The "if" Statement, Logical Operators, More Complex Expressions Finding and Fixing Problems, Types of Errors, Troubleshooting Tools, Using the Python Debugger

Lists and Loops introduction List Functions, Loop functions, ''For" Loops with examples, While" Loops with examples

Numeric and Date Functions Dates and Times, Advanced Data and Time Management, Random Numbers, The Math Library

Working with Strings Character Data, Input Validation with "try / except"

Functions introduction Writing and Calling Functions, Function Inputs and Outputs, Local and Global Scope, installing Python Managing Projects • Using the Python IDE , Python Managing Projects, Using the Python IDE

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

RESOURCE PERSON

Mrs.Kiranmai. Assistant Professor
Department of CSE,VIEW

Program Venue: Computer lab (B-15)

COORDINATOR

Mrs. P. Renuka, Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 7981887199

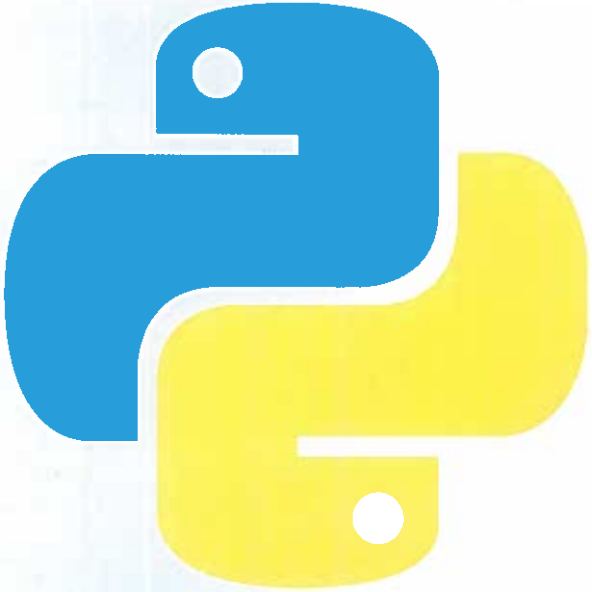
Value Added Course

on

Python Programming

05th November 2021 to 11th November 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

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

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Course Description and Objectives

This course is an introduction to programming and problem solving in Python. It does not assume any prior knowledge of programming. Using some motivating examples, the course quickly builds up basic concepts such as conditionals, loops, functions, lists, strings and tuples.

- To designed and provide basic knowledge of PYTHON
- To be familiarized with universal computer programming concepts like data types, containers.
- To be familiarized with general computer programming concepts like conditional execution, loops & functions

Course Outcomes

- Able to implement loops, branching, control instruction and functions in MATLAB programming environment.
- Able to program curve fitting, numerical differentiation and integration, solution linear equations in MATLAB and solve electrical engineering problems
- Able to understand implementation of ODE using ode 45 and execute Solutions of nonlinear equations and DFT in MATLAB.
- Able to simulate MATLAB Simulink examples

Course Contents

Introduction to MATLAB Programming Basics of MATLAB Programming, array operations in MATLAB, loops and execution of control, working with files: Scri and functions, plotting and programming output, examples

Numerical Methods and their applications: Curve Fitting: Straight line fit, Polynomial fit.

Linear and Nonlinear Equations Eigen values, Eigen vectors, Solution of linear algebraic equations using Gauss Elimination and LU decomposition, Solution of nonlinear equation in single variable using Gauss siedal and Newton-Raphson method

Ordinary Differential Equations: Introduction to ODE's, Euler's method, second order RungaKutta method, MATLAB ode45 algorithm in single variable and multivariables.

Transforms: Discrete Fourier Transforms,

Applications to electrical engineering problemsMATLAB Simulink: Introduction to MATLAB Simulink, Simulink libraries, development of basic models in Sitescape Power Systems

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

RESOURCE PERSON : **Dr. K. Durga Syam Prasad,** Professor
Department of EEE, VIEW

Program Venue: Electrical Simulation lab (B-04)

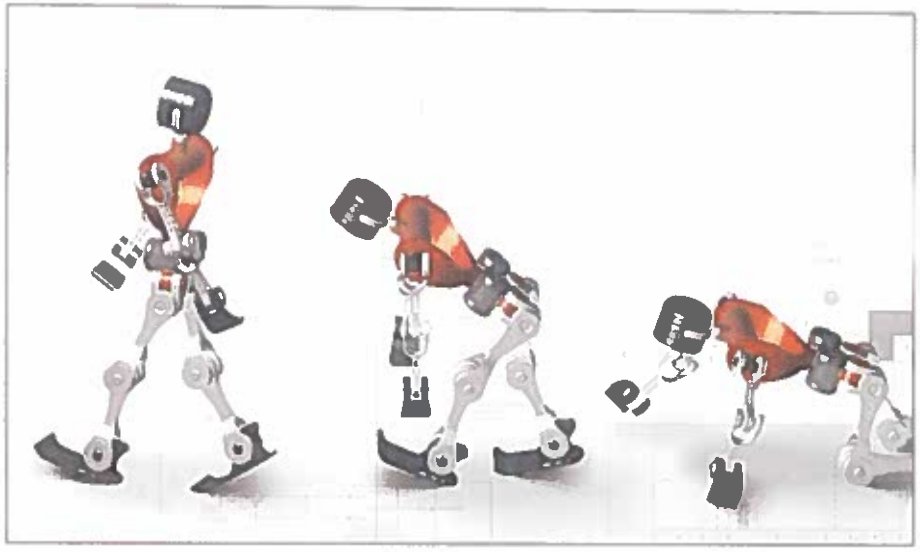
COORDINATOR : **Mr. A.Chandraiah,** Assistant Professor
Department of Electrical and Electronics Engineering
Mobile: 9553371222

Add-on Course on

MATLAB, SIMULINK for Electrical Engineering Applications

05th November 2021 to 11th November 2021

Duration of the Course : 36 hrs



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

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Course Description and Objectives

The ValueAdded Courses aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.The main objectivesoftheprogramare:

- To know about fundamentals of MATLAB tool .
- To provide an overview to program curve fitting & solve Linear and Nonlinear Equations.
- To understand the concept and importance of Fourier transforms.
- To gain knowledge about MATLAB Simulink & solve Electrical engineering problems.

Course Outcomes

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

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

Course Contents

Understanding IoT fundamentals IOT Architecture and protocols, Various Platforms for IoT, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies.

Arduino Uno Architecture Setup the IDE, Writing Arduino Software, Arduino Libraries, Basics of Embedded C programming for Arduino, Interfacing LED, push button and buzzer with Arduino.

Overview of Sensors working Analog and Digital Sensors, Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino, Interfacing of Actuators with Arduino. Interfacing of Relay Switch and Servo Motor with Arduino.

Basics of Wireless Networking Introduction to ESP8266 Wi-Fi Module, Various Wi-Fi library, Web server-introduction, installation, configuration, Posting sensor(s) data to web server.

M2M vs. IOT M2M vs. IOT, Logic Gates, Communication Protocols, Lab session Virtualization concepts and Cloud Architecture Cloud computing, benefits, Cloud services -- SaaS, PaaS, IaaS, Cloud providers & offerings, Study of IOT Cloud platforms.

Running LEDs Sand Glass Filling of LEDs, Sensor Interfacing, Seven Segment Display, Seven Segment Display, lab session

Resource person : Dr. P. Devendra, Associate Professor, Department of EEE ,GVPW

Program Venue : **Electrical Simulation lab (B-04)**

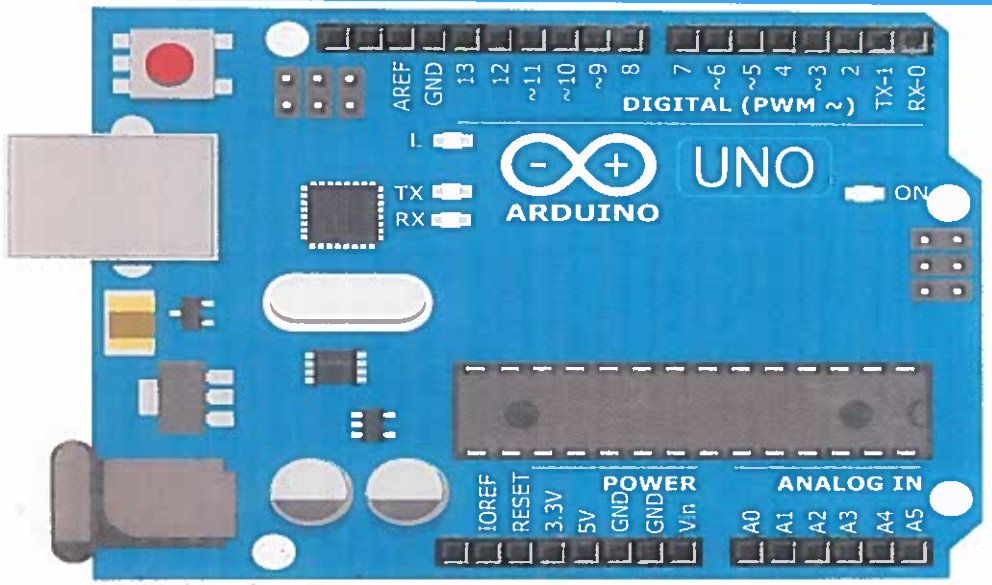
Coordinator : K.V Sri Ram Prasad, Assistant Professor
Department of Electrical and Electronic
Mobile : 9246473210

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

Add on Course on IoT using Arduino

02nd March 2022 to 09th March 2022

Duration of the Course : 42 hrs



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Department of Electrical and Electronics Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN

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

KAPUJAGGARAJUPETA, VISAKHAPATNAM-530 049.

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M2: To encourage for higher education and research with state of the art equipped laboratories.

M3: To promote entrepreneurship through creativity and innovation.

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

About the Department

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Course Description and objectves

Arduino IoT Cloud is an application that helps makers build connected objects in a quick, easy and secure way. You can connect multiple devices to each other and allow them to exchange real-time data. You can also monitor them from anywhere using a simple user interface.

- To understand the recent application domains of IoT in everyday life
- To design and build an actual IoT system.

COURSE CONTENTS

The following topics to be Covered:

Introduction to green energy systems Various types of green energy systems, primary criteria for sustainable energy technologies, life cycle impact assessment (LCIA) using the state-of-art computational tools such as Sustainable Minds, Open LCA, and GaBi platforms, corporate sustainability and social responsibility., Importance of green energy systems, and for opting green energy systems

Introduction to pollution effects Various types of pollutions occurred in environment, Air pollution, definition, causes, problems, damages to environment, remedy methods, Water pollution, definition, causes, problems, damages to environment, remedy method, soil pollution, definition, causes, problems, damages to environment, remedy methods

Introduction to multi green energy sources 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 of biomass, biofuel Biomass—renewable energy from plants and animals, Photosynthesis explanation, Converting biomass to energy, various bio fuels, How much biomass is used for energy?

Introduction of hydro power, geothermal Hydroelectric Power Station, Power Estimation, Resource Assessment for Small Installation, Determining Flow, And advantages and disadvantages applications and future scope, Geothermal energy introduction and operating principle explanation, Advantages, Geothermal Energy, Enhanced Geothermal Sources (EGS)

Introduction to wind power, solar energy, Applications Historical Development of WT, Current Status and Future Prospects of Wind Energy, Types of Wind Turbine Generators (WT), Orientation of WT, Sizes and Applications of WT, Components of WT, Wind Power Calculations, What is solar PV, Types of solar panel, Future solar technologies, Benefits and limitations, Problems based on green energy, Real Time Applications based green energy,

Applications for Grid Operators and Utilities. Application, Energy Storage Problems, cost, various conditions.

RESOURCE PERSON : **Dr. Y.Bhaskar S.S. Gupta**
Associate Professor, Department of EEE

Programme Venue : A-01 Class Room

COORDINATOR : **Mr.V.Avinash**
Assistant Professor, Department of EEE
Contact:9985859469

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

Add-on Course
on
GREEN ENERGIES
02nd March 2022 to 09th March 2022

Duration of the Course : 42 hrs

Organized by

Department of Electrical and Electronics Engineering

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

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Visakhapatnam-49

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COURSE DESCRIPITON & OBJECTIVES

This course is designed with the objective of developing the skills of the participants in tapping various sourves of Renewable Energy including solar, windm, bio energy, small hydro etc.,

- Identify the essential characteristics and technical requirements of photovoltaic, wind, and low head hydroelectric energy systems.
- To study maximum power point techniques in solar pv and wind energy.

COURSE OUTCOMES

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

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

Course Outcomes

1. Able to know about different types of EV and their working.
2. Able to Design suitable transmission and braking system for the Electric Vehicle.
3. Able to manufacture and fix it to the EV

Course Content

- Introduction, History, Components and Types of EV
- Types of Transmission systems and their components, Design of Transmission system
- Force analysis and Resistance acting on EV
- Types of Braking Systems and their components, design, Selection of suitable material for braking system.
- Components Assembly, testing and integration.
- Vehicle speed and brake power testing.

Resource person

Name of the Resource Person: Mr. Ch. GANESH
Managing Director,
Surya Renewable Energy Systems V.S.P

Program Venue: Mechanical Workshop

Co-ordinator

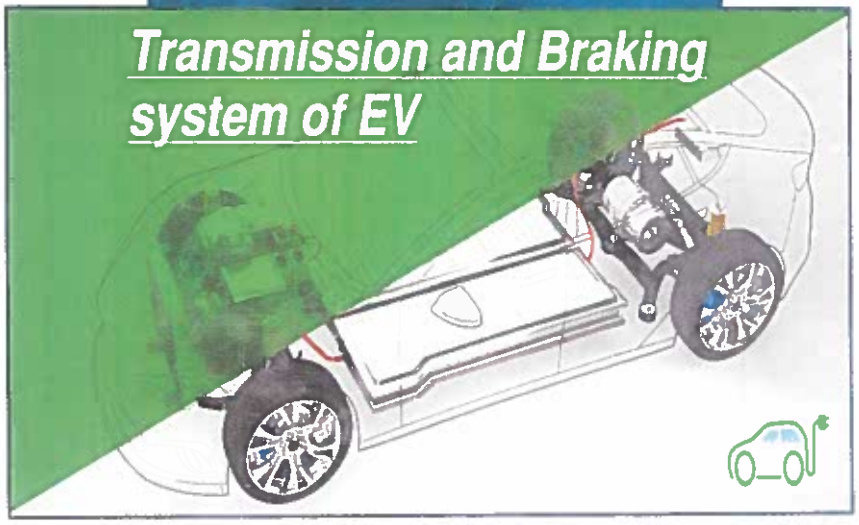
For Registration:

Mr. P. ANIL KUMAR,
Assistant Professor
Department of mechanical Engineering
Mobile:8555037997: Email Id: anil10776@view.edu.in

Add-on Course on Transmission and Braking System of Electric Vehicle

21st March 2022 to 26th March 2022

Duration of the Course : 36 hrs



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Department of Mechanical Engineering

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

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

Mission

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

About the Department

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

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

Vision

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

Mission

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

Course Description and Objectives

The coming decade is expected to be the decade of the fully electric car. The International Energy Agency cites that by 2020 up to 20 million electric vehicles will ply the road, a number that is expected to go up to 70 million by 2025. Countries around the world are waking up to the potential of e-mobility.

The main objective of the course is to Design a suitable transmission and braking system for the Electric Vehicle, Manufacture, Assemble and attach it to the EV.

Course Outcomes

1. Knowledge on 3D Printing approach, Processes, 3D Printers.
2. Knowledge on materials issues in 3D Printing, modelling a 3D object from scratch using a 3D CAD software and on STL file format.
3. Understand the difference between industrial 3D printers, desktop 3D printers and home/hobbyists 3D printers.

Course Content

- Additive Manufacturing approach. 3D Printing, specific terms,3D Printing advantages and limitations.
- Type of 3D Printing processes: main characteristics, materials, advantages and limitations, STL file format.
- Fused Deposition Modelling /Fused Filament Fabrication process, FDM/FFF equipment.
- Access STL files repositories such as: Thingiverse, GrabCAD, Pinshape etc, Browse the repositories and download STL file
- Access 3D Printing online services providers such as: 3D Hubs, Shapeways, Sculpteo, i.Materialise, QuickParts, Upload STL model, select material, 3D Printing process, machine, etc.

Resource person

Name of the Resource Person: Dr. V. Ananda Babu,
HoD-ME, VIEW.

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

Program Venue: Room No : B-26

Co-ordinator

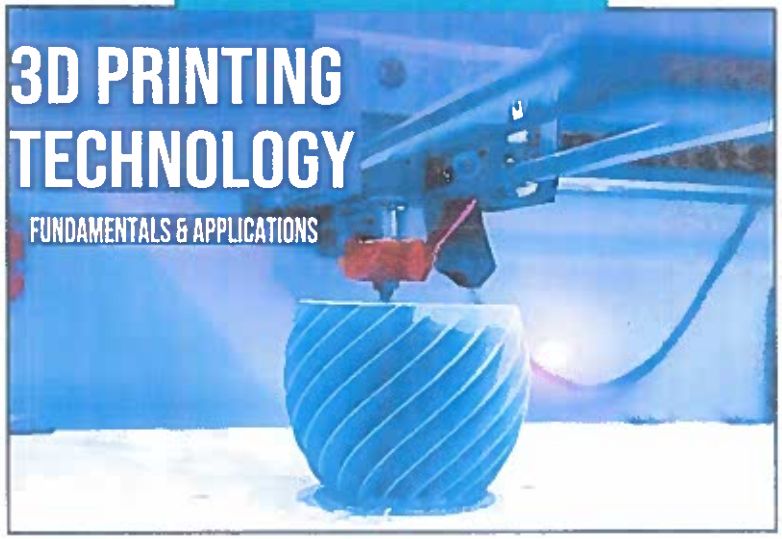
For Registration:

Mrs. S. Roopa,
Assistant Professor
Department of mechanical Engineering
Mobile:8143533366: Email Id: seeram.roopa@gmail.com

Value Added Course
on
3D PRINTING TECHNOLOGY

20th Dec 2021 to 24th Dec 2021

Duration of the Course : 35 hrs



Organized
by

Department of Mechanical Engineering

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

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

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Course Description and Objectives

Turn Your Ideas into Objects with 3D Printing. Obtain a rich understanding of what 3D printing is and how 3D printers work and develop skills in 3D Modelling. Consider how this new technology is being used by both firms and individuals with revolutionary potential; acquire a set of tangible

This Course will introduce you to the magic of 3D printing. Through hands-on capstone experience, you will acquire the knowledge and skills to turn your ideas into objects and your objects into ideas.

1.To acquire the knowledge and skills to turn your ideas into objects and your objects into ideas.

2.To bring together a unique mix of academics and industry.

3.To access STL file repositories, 3D Printing online services

Course Outcomes

The Student will be able to :

1. Understand the fundamentals of Raspberry Pi, Python programming and sensor interfacang.
2. Develop an IOT Embedded application.

Course Contents

- Introduction to IoT , Sensing, Actuation, Positioning, Basics of Networking, Communication Protocols
- Communication Protocols, Sensor Networks, Machine-to-Machine Communications, Interoperability in IoT, Introduction to Arduino Programming
- Integration of Sensors and Actuators with Arduino, Introduction to Python programming, Introduction to Raspberry Pi ,Implementation of IoT with Raspberry
- Implementation of IoT with Raspberry continuation, Introduction to SDN, SDN for IoT, SDN for IoT continuation
- Data Handling, Data Analytics, Cloud Computing, Cloud Computing Continuation, Sensor-Cloud Fog Computing, Smart Homes, Smart Grid, Connected Vehicles
- Communication between raspberry pi and IoT based clouds.
- Industrial IoT, Agriculture, Healthcare, Activity, Monitoring

Venue : English Communication Lab (B-37)

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

Resource person :
Mr. K. Kalyan, Pantech

Co-ordinator :
Mr. B. Naga Srinivasa Rao, Assistant Professor
Department of ECE, Mobile : 8328181276
Email Id: nagasrinu.b@gmail.com

Add on Course on

IoT based Embedded applications using Raspberry pi and python programming

16th December 2021 to 23rd December 2021

Duration of the Course : 42 Hrs.

Building IoT Using Raspberry Pi

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

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

About the Department

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Course Description and Objectives

Raspberry Pi is a small, affordable single-board computer that you will use to design and develop fun and practical IoT devices while learning programming and computer hardware. In addition, you will learn how to set up up the Raspberry Pi environment, get a Linux operating system running, and write and execute some basic Python code on the Raspberry Pi.

1. This course elucidates concepts related to Internet of Things.
2. The students will get handson experience in working with Raspberry Pi and exploring IoT.

Course Outcomes

The Students will be able to :

1. Make use of the Python Programming language to provide solution to Engineering Problems.
2. Apply the syntax and advanced concept to code.

Course Contents

- Motivation for Computing, Variables and Expressions Design your own calculator, Welcome to Programming, Lists, Tuples and Conditionals
- Abstraction Everywhere : Apps in your phone, Counting Candies : Crowd to the rescue, Birthday Paradox : Find your twin, Google Translate : Speak in any Language
- 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.

Venue: CEED Lab(C-35)

Resource person :

Mr. Md. Ajmal, Datapro Solutions

Co-ordinator :

Mrs. P. Gowri Swetha, Assistant Professor
Department of ECE, Mobile : 9492141648
Email Id: gowriswethap@view.edu

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

Value Added Course
on
JOY OF COMPUTING USING PYTHON

16th December 2021 to 23rd December 2021

Duration of the Course : 42 Hrs.

Organized by

Department of Electronics and Communication Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
(APPROVED BY AICTE & AFFILIATED TO JNT UNIVERSITY, KAKINADA)
ISO 9001 : 2015, ISO 14001:2015, OHSAS 18001 : 2007 CERTIFIED INSTITUTION
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Course Description and Objectives

The course brings programming to your desk with anecdotes, analogies and illustrious examples. Turning abstractions to insights and engineering to art, the course focuses primarily to inspire the learner's mind to think logically and arrive at a solution programmatically. As part of the course, you will be learning how to practice and culture the art of programming with Python as a language.

1. The students will be learning how to practice and culture the art of programming with Python as a language.
2. we introduce some of the current advances in computing .

Course Outcomes

The Students will be able to :

1. Make use of MATLAB syntory for specific applications.
2. Write Programs to solve complex Engineering Problems.

Course Contents

- Introduction to MATLAB, Basic Features Starting MATLAB, Using MATLAB as a calculator, Quitting MATLAB, Creating MATLAB variables, Overwriting variable, Error messages, Making corrections.
- Mathematical Functions, Basic Plotting, Creating simple plots, Adding titles, axis labels, and annotations, Multiple data sets in one plot, Specifying line styles and colors, Introduction to programming in MATLAB, M-File.
- Control flow and operators, Relational and logical operators , The "for...end" loop, The "while...end" loop, Other flow structures, Operator precedence, Saving output to a file
- Debugging M Files, Debugging Process, Correcting an M File Examining values, Correcting and ending debugging, Ending debugging, Correcting an M-file.
- Calling Functions, Transfer Functions,Anonumous ,inline Fuctions Anonymous Functions in Matlab,inline functions in Matlab,Bessel Functions in Matlab,Mean Functions in Matlab,Find Function, Filter Function,IIR Filter
- Kalman,Low Pass,Band Pass Filter ,Delta Function

Program Venue: English Communication Lab (B-37)

Resource Person :

Mr. S. Venkatesh, Electropro, Visakhapatnam.

Co-ordinator :

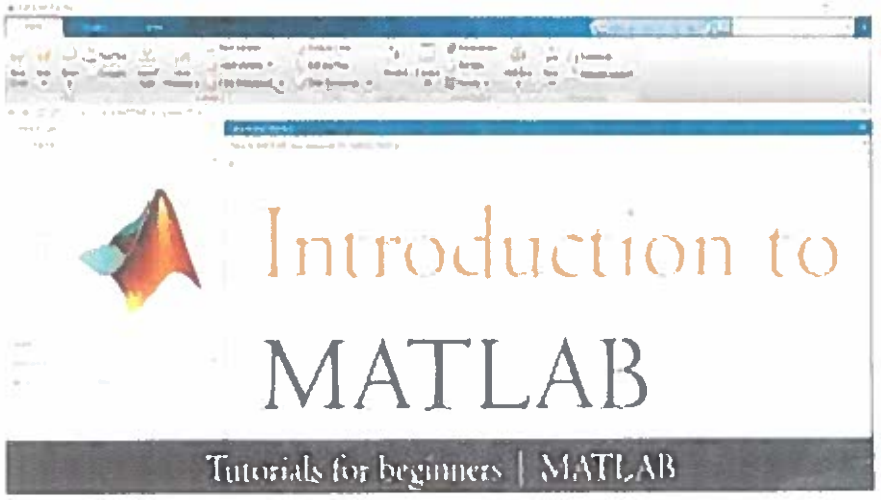
Mr. P. Ashok Kumar, Assistant Professor
Department of ECE, Mobile : 9985003535
Email Id: ashok.pentaece@gmail.com

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

Add-on Course on Introduction to MATLAB

04th October 2021- 9th October 2021

Duration of the Course : 36 Hrs.



Organized by

Department of Electronics and Communication Engineering

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

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Course Description and Objectives

This course (Introduction to MATLAB) will take those new/beginners in MATLAB through very important basic topics in MATLAB to allow them to get up to speed very quickly (less than 3 hours). The course will explain how to perform certain tasks in MATLAB showing you (line by line) how to write the code.

1. To know about fundamentals of MATLAB tool .
2. To provide an overview to program curve fitting & solve Linear and Nonlinear Equations.

Course Outcomes

The Students will be able to :

1. Use Pythan Modules to code for real and Practical tasks.
2. Apply Pythan Programs to GUI based applications.

Course Contents

- Invoking the interpreter, using the Python as a Calculator, Getting Familiar with Visual Studio Code More Data Types, Variables, Note on Naming Variables, Mathematical Operators, Assignment Operators, Converting Data Types, Comments, Understanding and Solving Errors,
- Range Functions, Break and Continue Statements, Pass Statements
- Looping Techniques, Logical operators ,Error Handling, String Control, File Handling Defining Functions , More on Defining Functions ,Coding Style , More on Lists , The del statement , Tuples and Sequences .
- More on Modules, Raising Exceptions, User Defined Exceptions
- Python Scopes and Name spaces,A First Look at Class ,Private Variables Arrays, Loops, Functions, Error Handling, Strings Control, File Handling, Object Oriented Programming Basics
- Making quiz game,Making a Guess the Number Game,Making ATM

Program Venue: CEED Lab (C-35)

Resource person :

Mr. Md. Azmal,

Datapro Solutions,Visakhpatnam.

Co-ordinator :

Mr. G. Swami Naidu, Assistant Professor

Department of ECE, Mobile : 7095670004

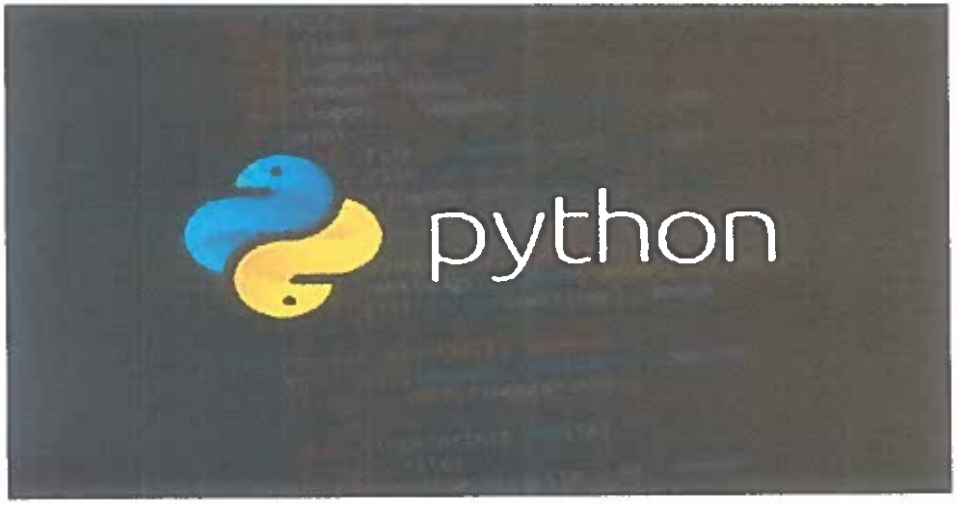
Email Id: naidu10788@view.edu

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

Value added Course on Python Programming Essentials

04th October 2021 - 09th October 2021

Duration of the Course : 36 Hrs.



Organized by

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Course Description and Objectives

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

1. To Learn core Python scripting elements such as variables and flow control structures.
2. To acquire Object Oriented Skills in Python

Course Outcomes

The Students will be able to :

1. Develop a single and multilayer PCB board.
2. Utilize the designed PCB board for heardware connections.

Course Contents

- Introduction to PCB,Types of PCB,Methods of Manufacturing Introduction to Proteus, Steps in Proteus,Schematic Design,Annotation, Electric Rule Check, Net List Generation, BOM Generation,CVPCB - Changing Components to Module
- Foot Print Description, Selecting and Assigning Foot Print,Desigining the Tracks Gerber File Generation,Component Creation Adding components to Library, Footprint Creation
- Etching Process and Drilling Process, Soldering Techniques process Other manufacturing processes, & Industrial Manufacturing Videos Circuit Explanation, Testing the Board
- Proteus Software tool Explanation, Schematics Creation Making print on copper board, Etching process., Soldering and testing components on board.
- Layout Preparation, Soldering and Testing Components on PCB
- Hands on session in both hardware& Software

Program Venue: EDC Lab (B-32)

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

Resource person :

Mr. K. Ganesh, Sr. Design Engineer
Pantech. Hyderabad

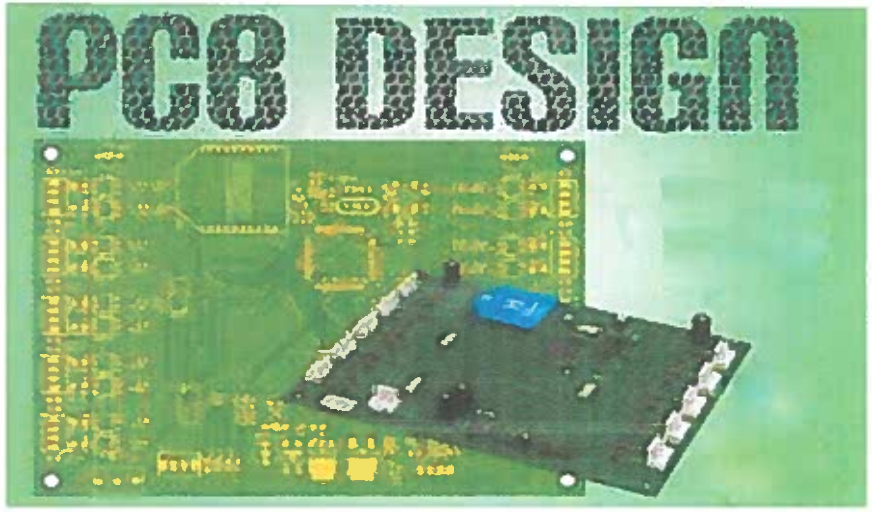
Co-ordinator :

Mr. B. Ravi, Assistant Professor
Department of ECE, Mobile : 9030717749
Email Id: ravib.speech@gmail.com

Add-on Course on PCB Design & Testing

04th October 2021 - 09th October 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 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

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Course Description and Objectives

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

1. To familiarize the electronic components and basic electronic instruments.
2. To make familiar with PCB design and various processes involved.

Course Outcomes

Students will be able to :

1. Understand about basic concepts of circuit emulators
2. Analyze Life cycle of embedded design and its testing

Course Contents

- Introduction to Embedded Systems and Computer Systems Terminology.Modular approach to Embedded System Design, Microcontroller Based Embedded System Design.
- Introduction to MSP430 Microcontroller,MSP430 CPU Architecture. Programming Methods for MSP430.
- Introduction to Lunchbox Platform.Advanced Physical Interfacing. Programming the MSP430,Installing and using Code Composer Studio(CCS)
- Introduction to Embedded C,Interfacing LEDs and Switches with MSP430 using Digital Input and Output.
- MSP 430 Clock and Reset System,MSP 430 Clock sources and Distributions,types of Reset sources,Hamdling interrupts in MSP 430

Venue: MPMC Lab (C-33)

Resource person :

Mr. T. Pradeep, Apply volt, Vijayawada.

Co-ordinator :

Mr. D. Appanna Tatajee, Assistant Professor
Department of ECE, Mobile : 9642308655
Email Id: dannana450@gmail.com

PRINCIPAL
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K.J.Peta, VSEZ (P.O.),
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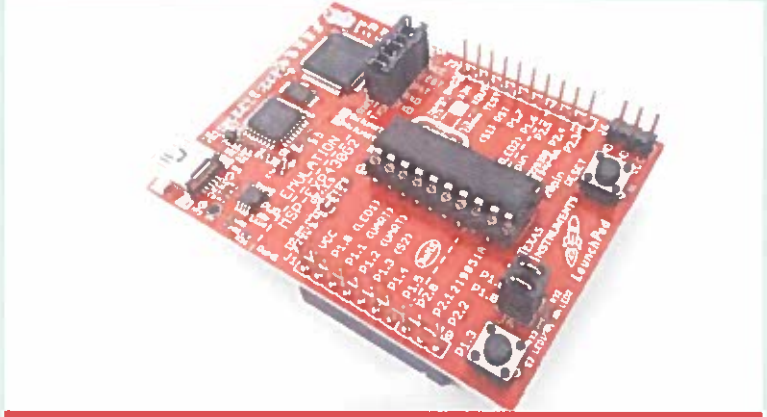
Add on Course on

EMBEDDED SYSTEM DESIGN USING MSP430 MICROCONTROLLER

21st March 2022 to 26th March 2022

Duration of the Course : 36 Hrs.



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Course Description and Objectives

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

1. To enable the students to understand embedded-system programming and apply that knowledge to design and develop embedded solutions
2. Identify hardware and software components to build an embedded system.

Course Outcomes

Student will be able to :

1. Understand the importance of peripheral devices for data communication.
2. Develop a Micro controller based product for Engineering Problems.

Course Contents

- Introduction to embedded systems hardware and software components, system on chip-challenges in embedded computing system design
- PIC microcontrollers: History and featuresCCS C Compiler and PIC18F Development System,PIC Architecture & Programming
- PIC I/O Port Programming,PIC Programming in C,PIC18 Hardware Connection and ROM loaders
- LCD and Keypad Interface,External EEPROMUSB and HID Class
- Capture Mode Programming and Pulse Width MeasurementDigital Oscilloscope, spectral Analyzer, and multimeter
- C# RS232 Interface Programming,C# GUI Plot Program,Digital Oscilloscope, Spectral Analyzer

Venue : B-35

Resource person :

Dr. Puvvada Ramesh, Professor,
Department of ECE

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Co-ordinator :

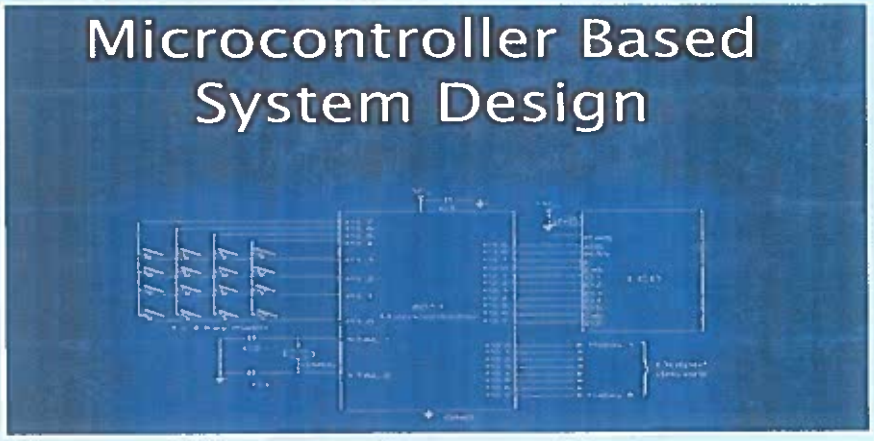
Mrs. N.N.N.Spandana, Assistant Professor
Department of ECE, Mobile : 7337222456
Email Id: spandananuvvula@gmail.com

Add on Course on

MICROCONTROLLER BASED SYSTEM DESIGN

21st March 2022 to 26th March 2022

Duration of the Course : 36 Hrs.



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Course Description and Objectives

This design is used in a medical application and has many high resolution analogue inputs. Careful PCB layout was required to separate these high impedance, low noise circuits from the high current output drivers.

1. To enable the students to design and interfacing of microcontroller-based embedded systems
2. High-level languages are used to interface the microcontrollers to various applications

Course Outcomes

The Students will be able to :

1. Learn the principles and objectives of basic signal processing methods fundamental to all radars.
2. Understand interference suppression methods for noise, clutter, and jamming

Course Contents

- 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, advanced (compound) statistical signal models for clutter, convolution models in range and angle
- Basic waveforms: simple pulse, LFM, coherent pulse train, Coded waveforms: frequency, phase (biphase, Costas), MCW, step-freq, Optimum waveforms for time delay, velocity, acceleration measurements
- Sampling complex band pass signals, Sampling rates in range, angle, Doppler, space, I/Q imbalance and correction techniques, Matched filter (vector formulation
- MTI as approximation to matched filter for unknown target velocity, DFT/pulse Doppler approx to matched filter for known target velocity, Optimal Detection

Program Venue: Class Room (B-36)

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Resource Person :

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

Co-ordinator :

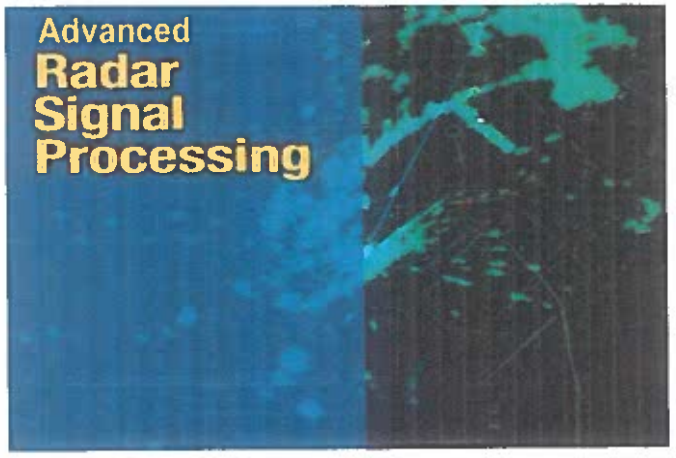
Mr. Shaik Ahemed Ali, Assistant Professor
Department of ECE, Mobile : 9703487868
Email Id: shaikali70@gmail.com

Add on Course on

ADVANCED RADAR SIGNAL PROCESSING

21th March 2022 to 26th March 2022

Duration of the Course : 36 Hrs.



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Course Description and Objectives

This course is a thorough exploration for engineers and scientists of the foundational signal processing methods for interference suppression, detection, imaging, and tracking that are at the core of most modern radar systems.

1. To enable the students for studying advanced techniques, such as radar imaging, advanced waveforms
2. Evaluate radar signal processing algorithm performance and limitations.

Course Outcomes

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

- Apply bit manipulation techniques to solve problems.
- Apply the modular programming techniques to simplify the programs.
- Able to solve problems using strings.

Course Contents

- Bit Manipulations
- Number Theory
- Recursions
- Recursions practice session
- Arrays
- Arrays practice session
- String Manipulations

Resource persons

Name of the Resource Persons :

Ms.G.Sandhya, Asst. Prof., Dept. of CSE,

Mrs.N.Suneetha, Asst. Prof., Dept. of CSE,

Mr. J. Ravi Chandra, Technical Trainer, Dept. of T & P.

Program Venue: Advanced Programming Lab B-15

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

Coordinators

Mr.V.Rama Rao, Asst. Prof., Dept. of CSE,

Mrs.S.ChandraVathi, Asst. Prof., Dept.of ECE,

Mr.M.Eswar Teja, Asst. Prof., Dept. of ME,

Mrs.P.Renuka, Asst. Prof., Dept. of EEE,

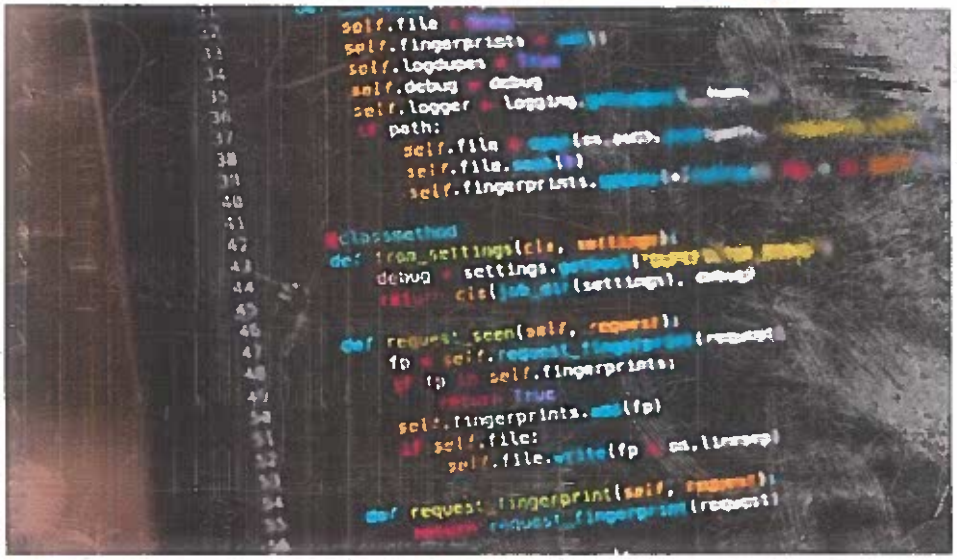
Mr.Netaji, Asst. Prof., Dept. of IT.

Add - on Course on

Essentials for Competitive Programming

16th Dec 2021 to 23rd Dec 2021

Duration of the Course : 35 hrs



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The Department of Computer Science and Engineeringhas been established in the year 2008 with an intake of 90students, 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 Postgraduateprogramme M.Tech. in Computer Science andEngineering. The main objective is to prepare the students to be successful in Computer Science Engineerto meet the industry needs, encourage lifelong skills andstrengthen research.

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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.

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Course Description and Objectives

Competitive Programming is a mental sport which enables to code a given problem under provided constraints. The course helps to construct algorithms involving Dynamic Programming, Bit masking, Greedy Algorithms and Divide & Conquer along with the essentials of advanced competitive programming topics.

1.To improve logical and analytical skills.

2.To improve programming patterns like recursion.

Course Outcomes

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

- Identify various privacy issues and threats in online platform.
- Use the internet or social media platform in an effective manner.
- Understand the threats and defend privacy through real-time and scalable systems.

Course Contents

1. Introduction; Various Privacy breaches, and its effects; Why Online privacy has become an important topic?; Privacy cases / litigations, and outcome.
2. Definition & forms of Privacy; Difference between data security & data privacy; Trade-off between privacy, utility and freedom of speech; Contextual integrity theory and applications.
3. Privacy Attitudes & Awareness, Social Media Privacy.
4. Data anonymity: K-anonymity, L-diversity, T-closeness, Differential privacy.
5. Image & Location privacy; Ethics about studying online privacy:Institutional Review Board / Ethics Committee; Conducting {User, Lab, and Online} Studies; Privacy from 3rd party trackers & advertisers.
6. User behaviour& Usable privacy; Privacy in National projects like Aadhaar, NATGRID; Differential privacy in US census, Apple; PDP Bill / Srikrishna commission report / GDPR: Implications.
7. Privacy policies: Length, readability, legality, cost of reading privacy policies; Nutrition labels of Privacy policies: How to make the policies simple and user friendly

Resource person

Name of the Resource Person: S. Gopi, K. Ram Mohana Rao,
Technical Trainers, APSSDC

Program Venue: Class Room A-15

Co-ordinator

For Registration:

Mrs. M. Naga Sravani
Assistant Professor
Department of Computer Science and Engineering

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Add - on Course on

Online Privacy

16th Dec 2021 to 23rd Dec 2021

Duration of the Course : 35 hrs

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Course Description and Objectives

With increase in the usage of the Internet, there has been an exponential increase in the use of online platforms, including social media (Facebook, Twitter, Koo, Tinder), e-commerce (Amazon, Flipkart), gaming (Roblox), video streaming (Netflix, Amazon Prime, Twitch), and messaging (WhatsApp, Signal, Telegram) services.

- Implement security design principles.
- Explain the core concepts of access control.
- Implement reference monitors.
- Apply security policies that are commonly used in modern operating systems

Course Outcomes

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

- Write simple GUI applications, use built-in widgets and components.
- Work with the database to store data locally.
- Able to develop a prototype which operates with the Parse web service

Course Contents

- Introduction to Internet
- Building your webapp
- Databases
- Introduction to Client-side Javascript
- Introduction to security for webapps
- Mobile Application Development
- Building a Blog App

Resource person

Name of the Resource Person: Dr. Anjaneyulu Pasami,
Professor, Department of CSE,
VFSTR

Program Venue: C-22 Data Base design Lab

Co-ordinator

For registration:

Mrs. Ch. Usha,
Assistant Professor
Department of Computer Science and Engineering

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Add on Course on

Android Application Development

16th Dec 2021 to 23rd Dec 2021

Duration of the Course : 35 hrs

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

Mission

M1:To empower women engineers through innovative teaching-learning practices.
M2:To encourage for higher education and research with well-equipped laboratories.
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Course Description and Objectives

Nowadays, the gadgets are rolling the world. Many people cannot imagine even one day without their favourite mobile device. We use them for everything: find information, stay connected with our friends and families, find the way around, decide what to do, and many other things. But very often we come to the point when we would like to have an application for particular situation or for certain need, but there is no such one

- To understand the basics of the Internet, building a web application, databases.
- To understand the performance and security and building a mobile application

Course Outcomes

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

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

Course Content

- Introduction to IoT – Definition, Applications, Challenges – Unique ID, Power, Security, Location, Addressing the Power challenge – RFID.
- Energy harvesting, Battery based systems, Power management systems, System design for low power – LDO.
- DC-DC converters, low power software, Sensors and actuators – Temperature sensor, Air quality, Solenoid valves.
- Power management algorithms, IoT protocols – MQTT, COAP.
- Web sockets with associated applications, Low power wireless technologies – BLE, IEEE 802.15.4e.
- Low power wireless technologies –Wi-Fi.

Resource person

Name of the Resource Person: Dr. S. Kranthi Kumar,
Assoc Professor, Dept of CSE,
GITAM

Program Venue: Advanced Programming Lab B-15

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

Faculty Coordinator

For Registration:

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

Add on Course
on

Design for IoT

11th Mar 2022 to 19th Mar 2022

Duration of the Course : 42 hrs

Organized
by

Department of Computer Science and Engineering

VIGNAN'S INSTITUTE OF ENGINEERING FOR WOMEN
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KAPUJAGGARAJUPETA, 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 :

- Able to understand cyber security landscapes.
- Able to identify software vulnerabilities and security solutions to reduce the risk of exploitation.

Course Contant

- Introduction to Cyber Space: History of Internet, Cyber Crime, Information Security and Computer Ethics.
- Guidelines to choose Best Browser according to the requirement and email security.
- Guidelines for secure password and wi-fi security, Two-steps authentication, Password Manager.
- Guidelines for social media and basic Windows security ,Tips and best practices for safer Social Networking ,Basic Security for Windows, User Account Password
- Smartphone security guidelines, Introduction to mobilephones , SmartphoneSecurity,Android Security, IOS Security.
- Cyber Security :Counter Initiatives in India,. Exercise,Incident Handling and Assurance.
- Online Banking Security, Mobile Banking Security, Security of Debit and Credit Card ,UPI Security

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 (P.O.),
Visakhapatnam-49

Program Venue: Advanced Programming Lab A-II

Faculty Coordinator

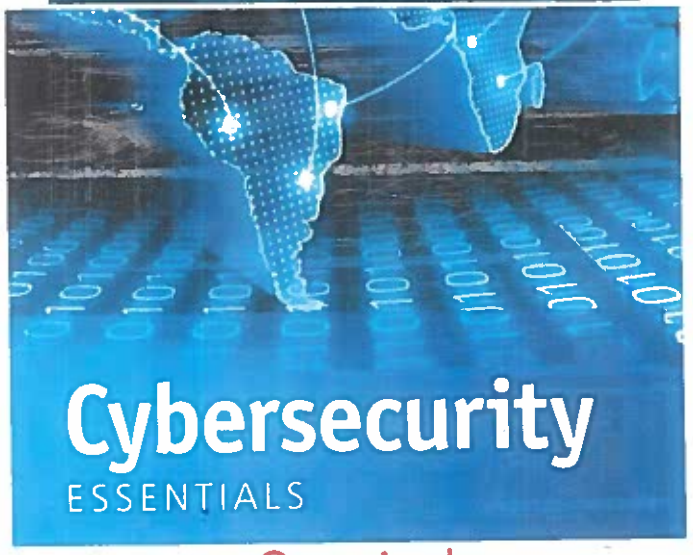
For Registration: Mrs. B. Haritha Laxmi
Assistant Professor
Department of Computer Science and Engineering

Add on Course
on

Cyber Security Essentials

11th March 2022 to 19th March 2022

Duration of the Course : 42 hrs



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Course Description and Objectives

The course on Cyber Security is important in this digital era as most of our operations are online. Learning secure operations and the best practices are essential to protect each one of us from becoming the victims of cybercrimes. Fundamental knowledge is very much required to understand the current status of cyber world. It is imperative to safe-guard the individual, organization and the government from the dangers of cyber threats and attacks.

1. To enhance awareness about cyber security challenges and cyber ethics.
2. To become responsible cyber citizens and participate safely and securely in rapidly evolving information-age society.

Course Outcomes

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

- Apply image formation concepts in various applications.
- Understand Image processing, Image Formation and Image Descriptors.

Course Contents

1. Introductionto Computer Vision and Basic Concepts of Image Formation, Introduction and Goals of Computer Vision and Image Processing.
2. Fundamental Concepts of Image Formation, Radiometry, Geometric Transformations, Geometric Camera Models.
3. Image Processing Concepts, Image Transforms, Image Enhancement.
4. Image Filtering,Color Image Processing, Image Segmentation, Image Descriptors and Features.
5. Texture Descriptors,Colour Features, Edges/Boundaries, Applications of Computer Vision. Artificial Neural Network for Pattern Classification, Convolutional Neural Networks, Autoencoder
6. Applications of Computer Vision, Gesture Recognition, Motion Estimation and Object Tracking.
7. Practice session&assessment.

Resource person

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

Program Venue: Class Room A-15

Faculty Coordinator

For Registration:

Mr. A. MaheswaraRao
Assistant Professor
Department of Computer Science and Engineering

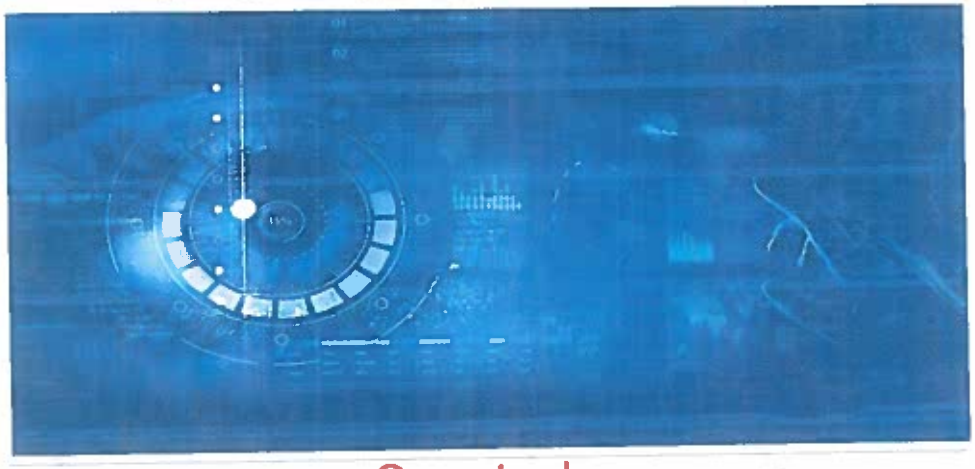
PRINCIPAL
Vignan's Institute of Engineering for Women
K.J. Peta, VSEZ (P.O.),
Visakhapatnam-49

Add - on Course
on

Fundamentals and applications in Computer Vision

11th March 2022 to 19th March 2022

Duration of the Course : 42 hrs



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Course Description and Objectives

The intent of this course is to familiarize the students to explain the fundamental concepts/issues of Computer Vision and major approaches that address them. This course provides an introduction to computer vision including image acquisition and image formation models, radiometric models of image formation, image formation in the camera, image processing concepts, concept of feature extraction and selection for pattern classification/recognition, and advanced concepts like motion estimation and tracking, image classification, scene understanding, object classification and tracking, image fusion, and image registration, etc.

- To study about image processing concepts.
- To learn about the fundamental concepts those are involved in image formations and various applications of Computer vision.

Course Outcomes

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

- Demonstrate proficiency with statistical analysis of data
- Develop the ability to build and assess data-based models.

Course Content

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

Resource person

Name of the Resource Person: Ms. Priya Bhargavi,
Alumni, System Analyst, TCS

Program Venue: Advanced Programming Lab B-15

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

Faculty Coordinator

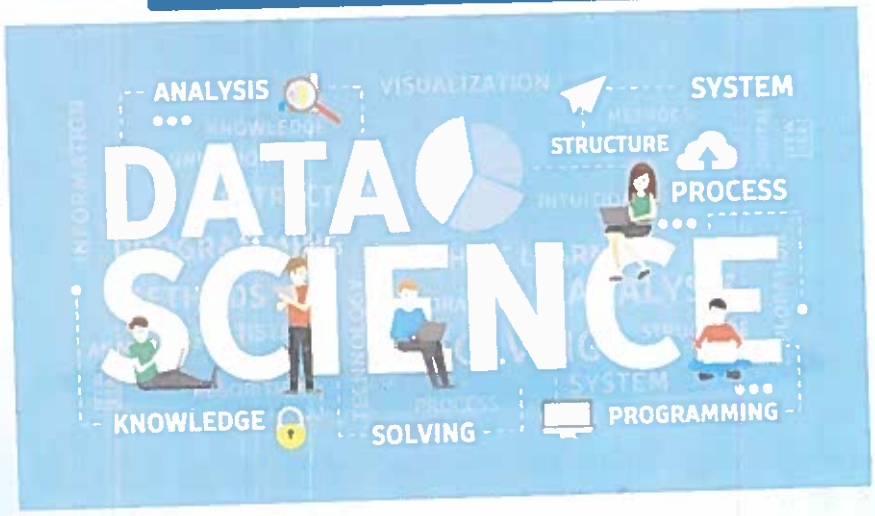
For Registration: Mrs. Sheik Rahimunnissa
Assistant Professor, CSE

Add on Course
on

Data Science for Engineering

2nd March 2022 to 8th March 2022

Duration of the Course : 36 hrs



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Course Description and Objectives

Data Science is a unique multidisciplinary confluence of Computer Science, Computational Mathematics, Statistics and Management. Data engineering involves data collection methods, designing enterprise data storage and retrieval. The core part of Data Science Engineering is data analytics, visualization, predictive modeling and analytics for data-driven decision making.

1. To understand the recent application domains of Data Science in everyday life.
2. To design and build a Real time Data Science Models.

Course Outcomes

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

- Identify various concepts of mobile programming that make it unique from programming for other platforms.
- Develop the ability to build and assess data-based models.

Course Contents

1. Why Mobile Apps?, App Design Issues and Considerations
2. IDEs and Editors, Using Eclipse for Android Development and Android Navigation and Interface Design
3. Lists in Android: Navigation and Information Display , Maps and Location in Android.
4. Type Script, Basic Types Functions Interfaces and Classes Decorators Angular.
5. Web Components, Why Do We Need Web Components? Custom Elements, Shadow DOM, HTML Templates, HTML ports.
6. List Component, Simple List, Header and Separ Grouping of Items Icons, Avatars, Thumbnails.

Resource person

Name of the Resource Person: Senthil Kumar,
Academic Partner,
Pantech eLearning Pvt Ltd.

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

Program Venue: Network Programming Lab B-16

Faculty Coordinator

For Registration: Ms. M. Pallavi,
Assistant Professor
Department of Computer Science and Engineering

Add - on Course
on
Advanced Mobile Applications

2nd March 2022 to 8th March 2022

Duration of the Course : 36 hrs

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Android will be used as a basis for teaching programming techniques and design patterns related to the development of standalone applications and mobile portals to enterprise and m-commerce systems Students will work at all stages of the software development life-cycle from inception through to implementation and testing. In doing so, students will be required to consider the impact of user characteristics, device capabilities, networking infrastructure and deployment environment, in order to develop software capable of meeting the requirements of stakeholders.

1. To facilitate students to understand android SDK 2.

2. To help students to gain a basic understanding of Android Application development .

Course Outcomes

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

- Create charts and graphs.
- Create reports and dashboards that are collections of visuals.

Course Contents

- Power Pivot and the Power BI Family: Making Sense of the Various Versions, Loading Data Into Power Pivot, Intro to Calculated Columns, Introduction to Power BI.
- IF(), SWITCH(), BLANK() and Other Conditional Fun SUMX() and Other X ("Iterator") Functions.
- "Complicated" Relationships, Row and Filter Context Demystified
- CALCULATE and FILTER – More Nuances.
- The tool chest called Power BI process.
- Power BI Parts and Pieces.

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

Resource person

Name of the Resource Person: V. P. Singh ,
Academic Partner, Pantech eLearning Pvt Ltd

Program Venue: Data Base design Lab A-II, C-22

Faculty Coordinator

For Registration:

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

Add - on Course
on
Power BI Reporting

2nd March 2022 to 8th March 2022

Duration of the Course : 36 hrs

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Power BI is a Data Visualization and Business Intelligence tool that converts data from different data sources to interactive dashboards and BI reports. Power BI suite provides multiple software, connector, and services - Power BI desktop, Power BI service based on Saas, and mobile Power BI apps available for different platforms. These set of services are used by business users to consume data and build BI reports.

- Microsoft Power BI is used to find insights within an organization's data.
- Power BI can help connect disparate data sets.
- Transform and clean the data into a data model and create charts or graphs to provide visuals of the data.

Course Outcomes

- Learn various tools of digital 3-D animation
- Understand production pipeline to create 2-D animation
- Analyse special effects in animation to bring interest and awe in the scenes and backgrounds.

Course Content

- 3D Animation Overview
- Working in 3D Animation Preproduction, Production, Postproduction
- Understanding Digital Imaging and Digital Video
- Using Principles of Fine Art and Traditional Animation
- Understanding Modeling and Texturing
- Rigging and Animation
- Understanding Visual Effects and Lighting

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Resource person

Name of the Resource Person: Mr. Y. Venkatesh
Trainer, 10gminds,
Visakhapatnam

Program Venue: James Gosling Lab (C-21)

Co-ordinator

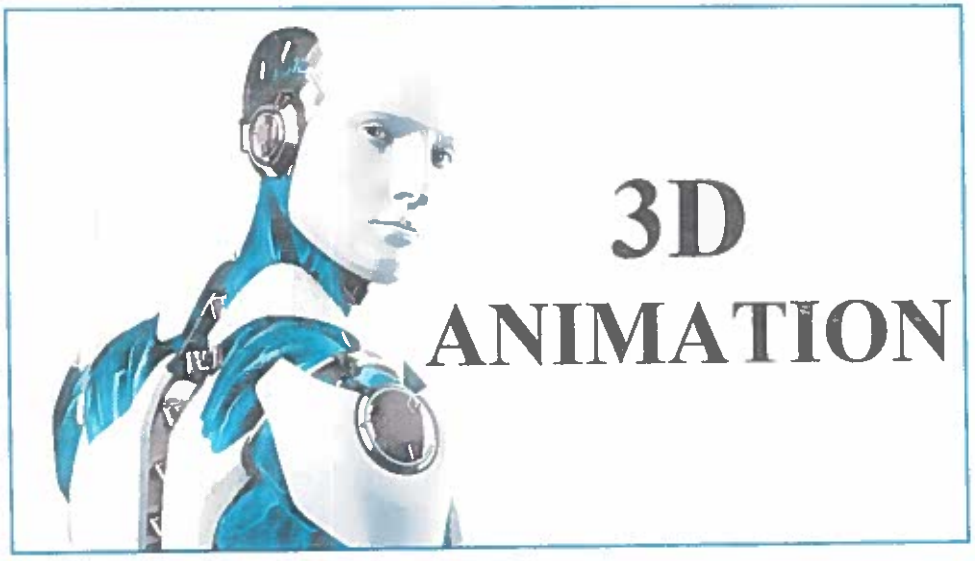
For Registration:

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

Add-on Course
on
3D Animation Essentials

13th to 20th December 2021

Duration of the Course : 35 hrs



Organized
by

Department of Information Technology

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

About the Institute

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

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

Vision

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

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

Mission

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

About the Department

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

Vision

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

Mission

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

Course Description and Objectives

This Course will enable students to learn various aspects of animation using a variety of 3-D software and to implement advance principles of traditional animation in Adobe animate to create high quality animation for production.

- Define 3D animation
- Compare and contrast two and three-dimensional animation
- Explain the history of three-dimensional animation
- Describe the process of creating three-dimensional animation

Course Outcomes

- Demonstrate and understand the basic concepts of web programming.
- Write well-structured, easily maintained, standards-compliant, web pages using HTML and CSS code.
- Apply techniques of form validation using Java Script.

Course Content

- Introduction to HTML and CSS
- JavaScript and Advanced Object concepts
- Introduction to PHP , Arrays and Functions
- Introduction to Python and OOPS concepts
- PERL , Hashs and File Handling
- Fundamentals of Angular JS
- Fundamentals of Ruby
- Fundamentals of NODE JS

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

Resource person

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

Program Venue: Dennis Ritchie Lab (C-25)

Co-ordinator

For Registration:

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

Add-on Course
on
Scripting Languages for Web Development

18th to 26th October 2021

Duration of the Course : 40 hrs

Organized
by

Department of Information Technology

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Course Description and Objectives

This Course will enable students to learn various aspects of Web Development with a combination of both frontend and backend languages that are used by developers and programmers to build a well-functioning website or web application.

- Write backend code in PHP language and Writing optimized front end code in HTML and JavaScript
- Understand, create and debug database related queries and Create test code to validate the applications against client requirement.

Course Outcomes

1. Understanding the modern interpretation of the national culture and impact of culture to the major management process.
2. Developing skills in communication, team-building, motivation leadership and negotiation in multicultural environment.

Course Content

- Evaluation approaches and methodologies aimed at arts/culture/heritage.
- New forms of arts/culture/heritage and its advertising, marketing and promotion
- Philosophical approaches to arts/culture/heritage. tourism/leisure and arts/culture interactions.
- Culture management approaches & Strategies. Importance of having a strong organizational culture.
- Cultural negotiation and process. Successful implementation of culture change.

Resource Person

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

Name of the Resource Person: Dr. S. Murali Krishna,
Associate Professor, MBA,
ED Cell, VIIT.

Program Venue: Seminar Hall

Coordinator

For Registration: Mrs. T. Suguna
Assistant Professor
Department of Master of Business Administration
Mobile No :9032844708 Email Id : suguna.tentu@gmail.com

Add on Course on CULTURAL MANAGEMENT

2nd March 2022 to 24th March 2022

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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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

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Course Description and Objectives

Designed to meet the complex needs of today's cultural managers and professionals. Helps to apply creative leadership and ethical principles in managing excellence, cultural heritage, audience diversity and financial sustainability, at local and global levels.

1. Studying a fundamentally new approach to company's management, taking into consideration cultural differences.

2. To impart knowledge regarding Culture management.

Course Outcomes

1. Able to process the payroll for an employee.
2. It helps to manages the gross and net pay, which also includes the payments and deductions calculated.
3. Able to enable a more engaged and productive workforce.

Course Content

- Introduction to SAP R/3
- Financial Accounting Basic Settings
- General Ledger Accounting
- Accounts Payable
- Accounts receivable
- Asset Accounting
- Reports
- Basic settings for controlling
- Cost Center Accounting
- Profit Center Accounting
- BRS
- Integration

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

Resource Person

Name of the Resource Person: Mrs. P. SUNITHA, Programmer Data Pro

Program Venue: C-LAB

Coordinator

For Registration:

Mrs. M. Satyavathi
Assistant Professor
Department of Master of Business Administration
Mobile: 9032991981 Email Id: satyavathimanapuram1989@gmail.com

Add-on Course on

SAP FICO

02nd Dec 2021 to 31st Jan 2022

Duration of the Course : 40 hrs

SAP FICO ®

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
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Course Description and Objectives

SAP FICO Course is a certification degree Course that deals with the Finance and Cost controlling module in SAP ERP where FI represents Financial Accounting and CO represents Controlling. SAP FICO module is hearty and covers practically all business cycles experienced in different industries.

1. SAP FICO allows an organization to store a complete version of their financial transaction data.
2. To help companies generate and manage financial statements for analysis and reporting, as well as to aid in effective business planning and deci-

Course Outcomes

1.Able to process the payroll for an employee.

2.It helps to calculate the salary and wages of permanent and temporary employees of an organization.

Course Content

- SAP & ERP Introduction and uses.
- ERP Packages development.
- Organization plan..
- Enterprise structure
- Personal administration.
- Infotypes.
- Introduction to time management.
- Wage types.
- Releasing payroll.
- ABKRS, TARIF & LGSMT.

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

Resource Person

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

Program Venue: C - LAB

Coordinator

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

Add on Course on SAP Payroll

02nd Dec 2021 to 31st Jan 2022

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

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

1. To calculate the remuneration for each employee with respect to the work performed by them.

2. Generate various lists related to remuneration and deductions performed in the system.

Course Outcomes

The student shall be able to

Understand the basic principles of stress management.

Develop proactive responses to stressful situations.

Learn to manage stress through diet, sleep and other lifestyle factors.

Course Content :

- Introduction: Stress Management
- Sources of stress
- Impact of stress
- Stress Response
- Copping Mechanisms
- Stress Reduction Techniques

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

Venue : A-41 Class Room, VIEW.

Resource Person :

Dr. T. Radha Krishna Murthy
Professor, VIEW

Course Co-ordinator :
Mrs. M. Venu Madhuri
Asst Prof., Department of B S & H

Add on Course

on

STRESS MANAGEMENT

21st Jan 2022 to 28th Jan 2022

Duration of the Course : 36 hrs

Organized by

DEPARTMENT OF
BASIC SCIENCES & HUMANITIES

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

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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

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.

Explain the physiological and psychological changes that occur in response to stress.

Identify the positive and negative effects of stress.

Identify various stress management techniques and the benefits of each technique.

Course Outcomes

Students will be able to list at least one major/career path they are interested in exploring further and declare a major.

Students will complete a comprehensive profile/reflection that includes information on work tasks, setting, salary, job outlook and resources corresponding to careers they are considering.

Students will be able to describe/reflect on how interactions with their Mentor have influenced their perspectives on the possibilities open to them after graduation.

Course Content

- Career Development Planning- Introduction and Stages
- Different Types of Careers and Impact of Technology on Career Planning
- Giving Career an Organic Growth
- Organisational Needs for Career Growth
- Mentoring as an Effective Tool and Succession Planning
- Careers in a Global Environment

Venue : A-45 Class Room, VIEW.

Resource Person :

Mr. Sk. Chaitanya Ch.
Asst. Professor, VIEW

Course Co-ordinator :

Mr. B. Durga Prasad
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

CAREER PLANNING

21st January 2022 to 28th January 2022

Duration of the Course : 36 hrs

Organized by

DEPARTMENT OF

BASIC SCIENCES & HUMANITIES

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

The 21st century career development planning has become very individual-centric, so organisations need to be specific in their recruitment process to ensure they balance the needs of the organisation properly along with the individual needs.

In this tutorial, we will discuss in detail about the benefits of career development planning and how an organisation can help its employees to develop different strategies for their betterment.

Objectives

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

- Demonstrate a clearer understanding of the career exploration process and how their own skills and interests match up to a chosen major/career path.
- Learn how to write professional documents (resume, cover letter, thank you letter) to use for jobs, internships and post graduate program applications.
- Become part of a community within the Mentoring Network that provides insights and connections to help them make their career dreams a reality.

Course Content :

- Definition of Women's rights in the constitutional perspectiveFundamental RightsDirective Principles of State Policy
- Formal equality and Substantive equalityCourts and their role in women's protectionPublic Interest Litigation and Habeas Corpus petitions
- Rights of girl childMatrimonial rightsWorking women's rightsRights of mothers and custody of children
- Protection against the domestic violenceViolence Against Women & Children
- Rape & Sexual Offences Under IPCProtection of Children from Sexual Offences Act
- Women's Health and SafetyWomen's rights (Reserved and Minorities)

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

Venue : A-46 Class Room, VIEW

Resource Person :

Dr. Hanieuddin
Director, NIST

Course Co-ordinator :
Dr. Nirmala Devi
Assoc.Professor, Department of B S & H

Add-on Course

on

LEGAL RIGHTS OF WOMEN

21st January, 2022 to 28th January, 2022

Duration of the Course : 36 hrs

Organized by

DEPARTMENT OF
BASIC SCIENCES & HUMANITIES

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Visakhapatnam-49.

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About the Course

Women's rights are the rights of women and girls and include the right to an education, the right to work, the right to vote, the right to equal pay and much more. Throughout history women have had to fight for basic human rights and freedom from the oppression of men in society. Today, the rights of women and girls vary greatly by country and in certain places; rights are suppressed by religious laws, cultural traditions or other factors.

Objectives

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

- Analyze and examine global women's rights issues
- Assess policy approaches to women's rights issues
- Critically assess policy approaches and solutions for global women's rights issues

Course Out comes

- Understand the basics of women's rights and human rights
- Define refugees and discuss women in war and refugee settings
- Explore issues related to women's quests to escape poverty, including economic empowerment, sex trafficking, and sex work

Course Content

- Introduction to Critical Thinking,The Potential of Critical Thinking,The Realities of Critical Thinking
- Critical Thinking and its Importance in Education,Critical Thinking in Academic Contexts,The Power of Critical Thinking
- Making Sense of Arguments, Critical Thinking in Morality and the Law,Fallacies and Persuaders
- Inductive Reasoning and Analogies,Inference to the Best Explanation,
- Mapping and Evaluating Arguments, Sources and Causes
- Causal and Deductive Arguments,Obstacles to Critical Thinking

Venue : A-47 Class Room, VIEW.

Resource Person :

Dr. Siva Satya Narayana (JCI)
Associate Professor.

Course Co-ordinator :
Mr. Sk. Chaitanya Ch.
Asst. Professor, Department of B S & H

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

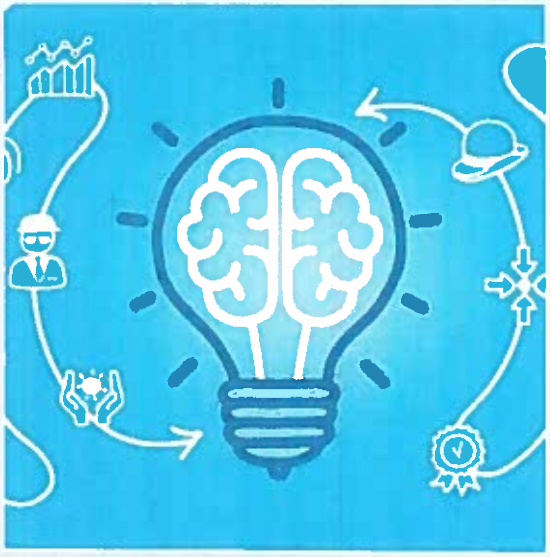
Add on Course

on

CRITICAL THINKING

21st Jan 2022 to 28th Jan 2022

Duration of the Course : 36 hrs



Organized by

DEPARTMENT OF
BASIC SCIENCES & HUMANITIES

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

About the Institute

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About the Course

Making decisions in today's world, a world increasing in complexity, with broad changes and uncertainty, creates the need for approaches that allow us to discern the real problems and the causes that create them. Identifying these problems, in most cases, requires challenging the assumptions on which we base our judgments, regarding the world and its realities.

Objectives

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

- Define accurately the term critical thinking
- Understand why we should critically think
- Bring out the critical thinking skills
- Apply knowledge of critical thinking to practical situations

Course Outcomes

- To create awareness in the participants with regard to understanding the impor tance of the critical thinking
- To empower participants by providing them with Relevant inputs and also sharpening their critical thinking
- To impart relevant knowledge and draw Logical Conclusions and implications from the analysis of an issue or problem.

Course Content

- **Unit IComputer Fundamental** What is Computer?, Functionalities of a computer, Advantages, Disadvantages, Generation of computer. Understanding the PC, Different types of computers and its key functions. Identifying the input and output devices.
- **Unit II** Generation of computer. Understanding the PC, Different types of computers and its key functions.Identifying the input and output devices.,
- **Unit-III:** Recognize of Motherboard layout, Components, Form Factors Introduction to Mother board, Types of Motherboard, Chipset, Motherboard Form Factors, Types of common Motherboard Form Factors
- **Unit-IV:** What is Processor?, How a processor works., Processor Technologies. Generations of Processor, Types of Instruction Set, Types of Standard Expansion Buses Slots. Types of Buses, Power Supply Unit, Power Supply Form Factors.
- **Unit-V:** Memory Form Factors and Slot Types, Memory Types Difference between DIMM vs. SODIMM Video Connector Types, VGA, DVI, HDMI Types of Printers, Toner Cartridges, Ink Cartridges, Interface Types.
- **Unit-VI:** Introduction to Networking, Types of Network, Network Categories Network Topologies, MAC Address, IP Address, Frames

Venue : B-14, Class Room, VIEW.

Resource Person :

Mr. A.M. Maheswara Rao,
Asst. Prof., CSE, VIEW

Course Co-ordinator :

Mr. K.V.V. Ganeswara Rao
Asst. Prof., Department of B S & H

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Visakhapatnam-49.

Add-on Course

on

Hardware Maintenance

25th April, 2022 to 30th April, 2022

Duration of the Course : 36 hrs

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

Basic electricity and digital electronics, basic knowledge about the computer systems (identification with/ without working units) will be an added advantage.

Objectives

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

- Identify the existing configuration of the computers & peripherals.
- Upgrading the same as & when required.
- Apply their knowledge about computer peripherals to identify/rectify problems on board.

Course Outcomes

- Understand the fundamentals of Hardware, handling, testing & troubleshooting of personal computer problems
- Identify the essential components of a computer

Course Content

- Web Design Principles
- Basics in Web Design
- Introduction to HTML
- Elements of HTML
- Introduction to Cascading Style Sheets
- Introduction to Web Publishing or Hosting

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

Venue : B-37, Class Room, VIEW.

Resource Person :

Dr. Siva Rama Krishna T.
Asst. Prof., JNTUK, UCEV.

Course Co-ordinator :

Dr. Shouri Dominic
Asst. Prof., Department of B S & H

Add on Course
on

Basics of WEB DESIGNING

25th April, 2022 to 30th April, 2022

Duration of the Course : 36 hrs

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DEPARTMENT OF BASIC SCIENCES & HUMANITIES

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

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About the Course

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

Objectives

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

- Define the principle of Web page design, basics in web design.
- Visualize the basic concept of HTML.
- Recognize the elements of HTML.
- Introduce basics concept of CSS.

Course Out comes

- Be able to use the HTML programining languages
- Runs the page has designed using HTML codes

- Explain terms like Machine Learning, Deep Learning and Neural Networks
- Describe several issues and ethical concerns surrounding AI
- Prepare for taking advances into a variety of advanced courses in sub fields of AI

Course Content :

- Introduction: Philosophy of AI- Definitions - AI Concepts, Terminology, and Application Areas: Modeling a Problem as Search Problem, Uninformed Search
- Heuristic Search, Domain RelaxationsLocal Search, Genetic AlgorithmsAdversarial Search
- Constraint SatisfactionPropositional Logic & SatisfiabilityUncertainty in AI, Bayesian Networks
- Bayesian Networks Learning & Inference, Decision TheoryMarkov Decision ProcessesReinforcement Learning
- Introduction to Deep Learning & Deep RL Applications of AI: Image processing and Computer Vision Robotic and Robot motion planning ; Natural Language Processing and information retrieval
- AI: Issues, Concerns and Ethical ConsiderationsThe Future with AI, and AI in Action

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Visakhapatnam-49.

Venue : B-44, Class Room, VIEW.

Resource Person :

Mrs. G. Pavani Latha,
Asst. Professor, VIEW

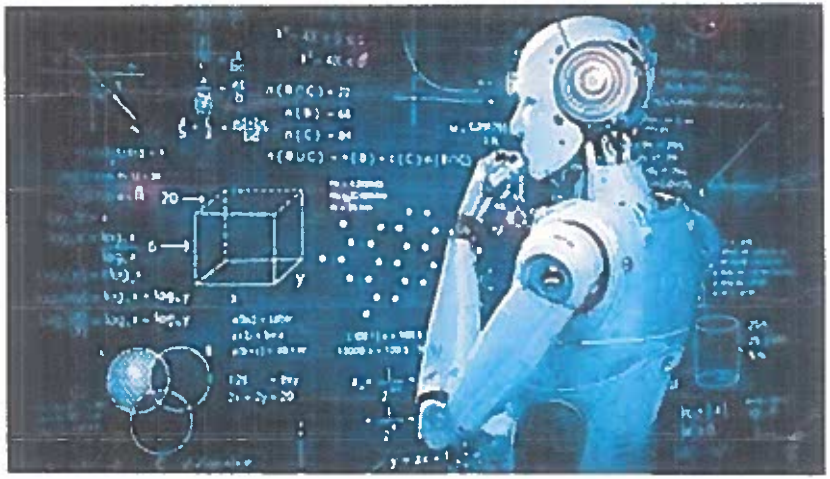
Course Co-ordinator :

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

Add-on Course
on
INTRODUCTION TO ARTIFICIAL INTELLIGENCE

25th April, 2022 to 30th April, 2022

Duration of the Course : 36 hrs



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About the Course

Course on Introduction to Artificial Intelligence (AI) explores the use of conditions and applications of AI for understanding the AI concepts and terms like machine learning, deep learning and neural networks. Students will become aware of various fundamental ideas involving the futuristic area, AI such as ethics and social implications, avenues for solutions.

Objectives

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

- To acquire knowledge on intelligent systems and agents
- To be aware of formalization of knowledge,
- To understand reasoning with and without uncertainty,
- To be aware dynamics of machine learning and applications at a basic level.

Course Outcomes

The student shall be able to

- Understand what is AI, its applications and use cases and how it is transforming our lives

- Recognize the variety of causes of procrastination and apply relevant technique to overcome these.
- Clarify and prioritize your objectives and goals, by creating more planning time.
- Adopt appropriate strategies for dealing with interruptions
- Use practical techniques for organizing work.

Course Content

- What is time management? The myths and magic of time preparing for marathon, not the sprint – exploring sustainable principles.
- Slicing the pie – how to avoid overdraft setting goals and objectives – efficiency Vs effectiveness – taking control the power of the pro-active manager.
- Prioritizing your workload – urgency vs importance planning your day – time management systems explored recognizing personal blocks & Managing and making use of Technology.
- Minimizing stress – time management as life-saver Profiling your time Dealing with typical Time Wasters.
- Techniques of Task Prioritization & Prioritizing workload and focusing the key tasks ways to say 'NO' assertively.
- Delegating tasks Action Planning Check List management

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

Venue : B-43 Class Room, VIEW.

Resource Person :

Dr. N.B. Harsha Vardhan Reddy (JCI)

Soft Skills Trainer

Course Co-ordinator :

Dr. Sk. CHAITANYA Ch.

Asst Professor, Department of B S & H

VIGNAN'S
INSTITUTE OF ENGINEERING FOR WOMEN

(Approved by AICTE & Affiliated to JNTUK
Accredited by NBA for UG Programmes of EEE, ECE, CSE & IT
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Certified Institution

Add on Course on
EFFECTIVE TIME MANAGEMENT

25th April, 2022 to 30th April, 2022

Duration of the Course : 36 hrs

Organized by

DEPARTMENT OF BASIC SCIENCES & HUMANITIES

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About the Course

This Time Management training course is designed to help participants develop their skills in time management to achieve more effective results in less time. One of the most repeated phrases you will hear in offices up and down the country is "we don't have enough time" - to which the response is often "work harder!" - leading to overtime, stress - and often a poorly done job! Developing techniques to make more intelligent use of time, and to prioritize and effectively manage a challenging workload can lead to a more productive workforce getting more important work done in less time and with less stress!

Objectives

- recognize the myths and reality of time management
- define their values, goals, targets and priorities
- develop a workable balance between being reactive and proactive
- plan workloads and take a positive approach to decisions and develop an effective time management system

Outcomes

The student shall be able to

- Identify your own particular time wasters and adopt strategies for reducing them.