



1.3.2 List of value-added courses for imparting transferable and life skills offered during the assessment year 2020-21.

Sl. No.	Course Name	Page No.
1	PYTHON PROGRAMMING - I	1
2	AIRPORTS & MARINE DOCKS INDUSTRY ALIGNED PROGRAM FOR CIVIL ENGINEERING	3
3	REVIT ARCHITECTURE	5
4	ROADS & HIGHWAY INDUSTRY ALIGNED PROGRAM FOR CIVIL ENGINEERING	7
5	DESIGN OF STEEL STRUCTURAL & PEB INDUSTRY ALIGNED PROGRAM FOR CIVIL ENGINEERING	9
6	OPTIMIZATION TECHNIQUES AND ITS APPLICATIONS IN POWER SYSTEM USING MATLAB	11
7	MATLAB FOR ELECTRICAL ENGINEERS	13
8	AUTO CAD FOR ELECTRICAL AND AUTOMATION ENGINEERING	15
9	INDUSTRIAL AUTOMATION USING PLC	17
10	IOT DEVELOPMENT WITH RASPBERRYPI	19
11	DESIGN OF BASIC STEEL STRUCTURES USED IN PLANT CONSTRUCTIONS.	21
12	DRAFTING OF MACHINE COMPONENTS USING AUTOCAD.	23
13	MODELING OF MACHINE PARTS USING FUSION 360.	25
14	DESIGN PRE-ENGINEERED BUILDING STEEL STRUCTURES USED IN GREEN BELT COMPANIES.	27
15	MODELLING USING NX ON 3D EXPERIENCE PLATFORM.	29
16	AUTOMATION OF AUTOMOBILE INDUSTRIES USING ADVANCED ROBOTICS.	31
17	DEFECT FINDING USING NON-DESTRUCTIVE TESTING TECHNIQUES - INDUSTRIES APPROACH.	33
18	ENGLISH FOR SPECIAL PURPOSE	35
19	INTRODUCTION TO MATLAB PROGRAMMING	37
20	DESIGN OF MIMO ANTENNA	39
21	PCB DESIGNING AND ITS APPLICATION	41
22	INTRODUCTION TO MONGO DB	43
23	ANDROID APPLICATION DEVELOPMENT	45
24	CCNA - INTRODUCTION TO NETWORKS	47



24	CCNA - INTRODUCTION TO NETWORKS	47
25	AWS ACADEMY CLOUD FOUNDATIONS	49
26	AWS ACADEMY MACHINE LEARNING FOUNDATIONS	51
27	CISCO DEVNET ASSOCIATE	53
28	COMPETITIVE PROGRAMMING USING C	55
29	AWS CLOUD FOUNDATIONS	57
30	AZURE SC 900	59
31	ESSENTIAL OF COMPETITIVE PROGRAMMING-I	61
32	ESSENTIAL OF COMPETITIVE PROGRAMMING-II	63
33	AWS CLOUD COMPUTING	65
34	INTERNET OF THINGS	67
35	SELF MANAGEMENT SKILLS	69
36	DIGITAL MARKETING	71
37	COMPETITIVE CODING	73
38	DIGITAL FORENSIC SCIENCE	75
39	PARALLEL COMPUTING	77
40	WASTE TO WEALTH	79
41	MATLAB FOR BEGINNERS	81
42	INFERENTIAL STATISTICS	83
43	CREATIVE WRITING	85
44	OPTIMIZATION TECHNIQUES	87
45	CHEMISTRY IN EVERY DAY LIFE	89
46	ENGLISH FOR PROFESSIONALS	91



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 Beside: VSEZ, Duwada, Visakhapatnam-49

ABOUT THE INSTITUTION



Vignan's Institute of Information Technology (Autonomous) goal is to be a recognized leader in technical education to be a competent and socially conscious technical workforce for industry needs and national growth. Provide top-tier education and research opportunities in the cut-edge fields of engineering and technology, with a strong emphasis on skills, leadership, and creativity. Students get the opportunity to meet industry professionals through guest lectures, visits to enterprises, internships, sports, cultural, and other extracurricular activities, and guest speakers. VIIT has a best track record of placements in recent years, and students have established their mettle in industry, academics, and administration. A well-ventilated green campus, well-ventilated room classrooms, a state-of-the-art computer center, a digital library, and a peaceful environment contribute to a pleasant learning experience.



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Reside VSF7, Duvvada, Vadlaoudi Post, Gajuwaka, Visakhapatnam - 530 049.

Value Added Course on PYTHON PROGRAMMING-I

26/3/2021 to 3/4/2021



ORGANIZED BY

DEPARTMENT OF CIVIL ENGINEERING

PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

ABOUT THE DEPARTMENT

The Department of Civil Engineering at Vignan's Institute of Information Technology was established in the year 2011. The department offers an undergraduate programme (B.Tech) and postgraduate programmes (M.Tech)- Transportation Engineering. The students are provided with solid engineering education, with a focus on creativity and innovation and a strong ethical responsibility. The civil engineering program prepares graduates with strong leadership qualities. These leadership qualities and our program's high technical standards generate strong interest from industries and employers across the region.

COURSE OBJECTIVES

- The course is designed to provide Basic knowledge of Python.
- To make the students enable at par to Industry aligned companies, validate and benchmark their experience. Experience of different sensor module programming.

COURSE OUTCOMES

At the end of the course the students

- Install Python IDE and run basic Python scripts.
- Understand the operators, functions, key Concepts of Object Oriented Programming in python.
- Access Python from various online resources and import packages to the current working environment.
- Understand file handling operations and implement ML/DS Libraries using Python.



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COURSE CONTENTS

Topics	Hours
Install and Setup; Stepping into the World of Python	3
Program Flow Control in Python; Lists and Tuples	6
Functions - An Introduction; Dictionaries and Sets	9
Input and Output (I/O) in Python	3
Modules and Functions in Python	12
Object Oriented Python	5
Total Hours	38

RESOURCE PERSON



Mr. Lokesh Uppugunduru,
Software Developer at TCS

COORDINATOR

Mr. V. Sudhir, Assistant Professor
Department of Civil Engineering, VIIT (A)
Email: sudhirv.civil@vignaniit.edu.in
Mobile: **+91-9492154258**

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link:

<https://forms.gle/ibMDtJFUC9d3Mcwz5>

Last date of Registration: 25/3/2021.

ABOUT THE INSTITUTION



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Value Added Course

on

Airports & Marine docks Industry aligned program for Civil Engineering

08/03/2021 to 12/03/2021



ORGANIZED BY

DEPARTMENT OF CIVIL ENGINEERING



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Beside: VSEZ, Duwada, Visakhapatnam-49

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COURSE OBJECTIVES

After completion of the course, students will be able

- To provide students with an understanding of the design, construction, and operation of airports and marine docks.
- To familiarize students with the regulatory and environmental considerations that must be taken into account when building and operating airports and marine docks.
- To equip students with project management principles and techniques that is essential for large-scale infrastructure projects.

COURSE OUTCOMES

At the end of the course the students will be able to

- Understand regulatory requirements for building and operating airports and marine docks.
- Study zoning regulations, environmental regulations, and safety regulations.
- Design and construct airport infrastructure such as runways, taxiways, and aprons, as well as marine dock structures such as piers and docks.
- Operate airports and marine docks, including air traffic control, ground handling, cargo handling, and security systems.

COURSE CONTENTS

Topics	Hours
Airport design and construction	6
Marine docks design and construction	6
Airport and marine dock operations	6
Environmental considerations	6
Regulatory requirements	6
Total Hours	30

RESOURCE PERSON

Mr. J. Kiran Kumar
Managing Director
Marine Engineering

COORDINATOR

Mr. V. Sudhir,
Assistant Professor

Department of Civil Engineering, VIIT (A)

Email: sudhircivil.viit@gmail.com Mobile: 94921715425

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration Information: <https://forms.gle/ibMDiJFkC9d3Mcwz3>

Last date of Registration: 7/03/2021.



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Value Added Course on Revit Architecture

15/3/2021 to 9/4/2021



REVIT ARCHITECTURE

15th March 2021 - 09th April 2021

III YEAR B.TECH STUDENTS DEPARTMENT OF CIVIL ENGINEERING

ORGANIZED BY

DEPARTMENT OF CIVIL ENGINEERING



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Signature

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COURSE OBJECTIVES

The objective of this course is to

- To enable students to create architectural project models and set them up in working drawings.
- To create floors and ceilings, add roofs and curtain walls, and work with stairs and railings in a building model and create elevation, section, and 3D views.

COURSE OUTCOMES

At the end of the course the students will be able to

- Describe building information modeling, bidirectional associativity, and parametric relationships in Revit.
- Create a basic floor plan, add and modify walls and compound walls, use editing tools, and work with doors and windows.
- Work with component families and learn how to use dimensions and constraints.
- Create floors and ceilings, add roofs and curtain walls, and work with stairs and railings in a building model and create elevation, section, and 3D views.

COURSE CONTENTS

Topics	Hours
Introduction to Building Information Modelling.	6
Placing Walls, Doors & windows; Placing of Family Files.	6
Properties Palette; Type Selector.	6
Different Types of Openings; Staircase, Ramp, Railing Annotations.	6
Creating Section Views; 3-D Views.	6
Schedules; Page Layout; Documentation; Project Submission.	6
Total Hours	36

RESOURCE PERSON



Mr. N. Satya Srinivasa Rao,

TDD-Head

AEP certification

satya@aepecertification.com

Mob: 9494655530

COORDINATOR

Mr. V. Sudhir, Assistant Professor

Department of Civil Engineering, Vignan's Institute of Information Technology (A)

Email: sudhircivilinfo@gmail.com

Mobile: 9492154258, Visakhapatnam-49

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/ibMkiJFkC9d3Mcwz4>

Last date of Registration: 14/3/2021



ABOUT THE INSTITUTION



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Value Added Course on Roads & Highway Industry aligned program for Civil Engineering 08/3/2021 to 13/3/2021



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INSTITUTE OF INFORMATION TECHNOLOGY
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3/2021

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COURSE OBJECTIVES

After completion of the course, students will be able

- To make the students enable at par to Industry aligned companies, validate and bench marking their experience
- Planning, Designing and solving the transportation problems

COURSE OUTCOMES

At the end of the course the students will be able to

- Will be able to prepare detailing engineering drawings for all Roads & Highway
- Will be able to prepare AOE's deliverables for all Design engineer for Roads & Highway
- Explain about integration AOD's & AOE's in respective Design engineer for Roads & Highway. Will be able to any industry in Design engineer for Roads & Highway
- Will be able to prepare and match his resume to any civil Design engineer for Roads & Highway industries.

COURSE CONTENTS

Topics	Hours
Topological Location Map; Typical Cross sections; Roads & Highway Legend	6
Horizontal & Vertical Alignment Design Reports; Plan & Profile; Major Junction Improvements.	6
Layout of Bus bays, Bus Shelter ; Truck Lay be, Truck Lay be Toilets.	6
Cross section with fly Ash; Chute Drain; Structural details for longitudinal drains;	6
Structural details for Longitudinal drains reinforcement; Stilling Basin at Junction of Lined and earthen drain.	6
Dimensions and Reinforcement of RCC TOE WALL; Toll Plaza detail drawings.	6
TOTAL HOURS	36

RESOURCE PERSON



Mr. N. Satya Srinivasa Rao,
TDD-Head
AEP certification

COORDINATOR

Mr. Vummadiseti Sudhir, Assistant Professor
Department of Civil Engineering, VIIT (A)
Email: sudhir.vummadiseti@gmail.com

Mobile: +91 9492254258

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/w5jCbahgqyKDK2XLape7>

Last date of Registration: 07/03/2021.

3/02/21

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Value Added Course on Design of Steel structural & PEB Industry aligned program for Civil Engineering

08/03/2021 to 13/03/2021



ORGANIZED BY

DEPARTMENT OF CIVIL ENGINEERING



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COURSE OBJECTIVES

After completion of the course, students will be able

- To highlight the technical challenges and emerging technologies for the improvement of efficiency of making structural PEB.
- To make the students enable at par to Industry aligned companies, validate and benchmark their experience.

COURSE OUTCOMES

At the end of the course the students will be able to

- Will be able to prepare detailing engineering drawings for all Steel structural & PEB.
- Explain about integration AOD's & AOE's in respective Steel structural & PEB.
- Will be able to communicate to any industry in Steel structural & PEB.
- Will be able to prepare and match his resume to any civil Steel structural & PEB industries.

COURSE CONTENTS

Topics	Hours
Structural shapes; Structural Members	6
Riveted Connections; Bolted Connections; Welded Connections	6
Single plate angle connections; Double web angle connections; Top and bottom angle connections	6
Seated beam connections; According to the type of members joining; Beam to beam connections	6
Column to column connections; Beam to column connections;	6
Column base plate connections	6
TOTAL HOURS	36

RESOURCE PERSON



Mr. S Sridhar, Project Manager ,Garuda 7D Engineering solutions

COORDINATOR



Mr. V. Sudhar, Assistant Professor
Department of Civil Engineering, VIT (A)

Email: vsudhar@vignanmit.edu.in Mobile: 9492154258

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/w5jFb9dsbqDK2XLape7>
Last date of Registration: 07/03/2021

About the Institute



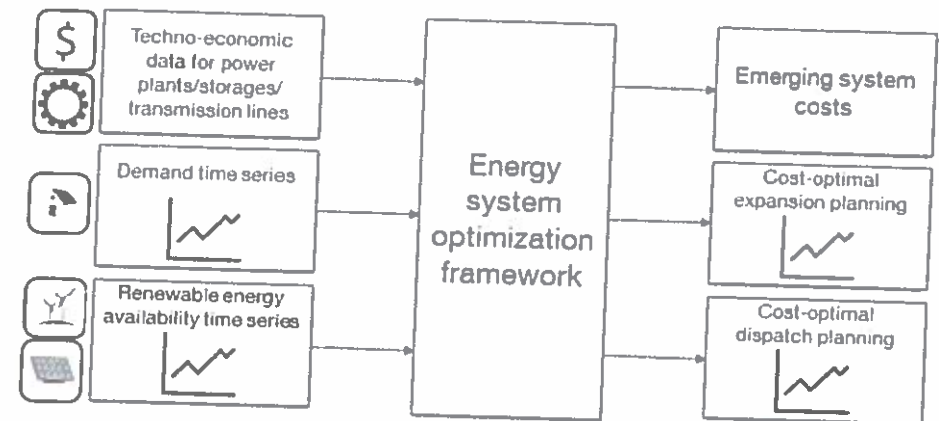
Vignan's Institute of Information Technology (Autonomous) goal is to be a recognized leader in technical education to be a competent and socially conscious technical workforce for industry needs and national growth. Provide top-tier education and research opportunities in the cut-edge fields of engineering and technology, with a strong emphasis on skills, leadership, and creativity. Students get the opportunity to meet industry professionals through guest lectures, visits to enterprises, internships, sports, cultural, and other extracurricular activities, and guest speakers. VIIT has a best track record of placements in recent years, and students have established their mettle in industry, academics, and administration. A well-ventilated green campus, well-ventilated room classrooms, a state-of-the-art computer centre, a digital library, and a peaceful environment contribute to a pleasant learning experience.

Value Added Course

on

OPTIMIZATION TECHNIQUES AND ITS APPLICATION IN POWER SYSTEM USING MATLAB

22nd April to 29th April 2021



Organized

by

Department of Electrical and Electronics Engineering
VIGNAN'S INSTITUTE OF INFORMATION TECHNOLOGY (A)
Beside: VSEZ, Duwada, Visakhapatnam-49



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About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Information Technology has been active in teaching and research since its inception 2002. The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post- graduate course in Power and Industrial Drives. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. The Department has rich experienced and dedicated faculty from reputed institutes. Currently, about 38 committed faculty members are working and engaged in research in the areas of Electrical Machines, Control systems, Power systems, High Voltage Engineering & Power Electronics etc. Faculty are encouraged to take independent initiatives with collective responsibility in all the relevant academic and R&D dimension like innovative teaching, student projects and research supervision, continuous education through organizing conferences, symposia etc.

Course Objectives

The goal of this course is to provide students with a basic knowledge and hands on experience in designing optimization technique-based models to solve different problems in power system. Resource persons with expertise in optimization in MATLAB software are used. Students are encouraged to implement different optimization techniques in power system using MATLAB.

- Identify, understand, formulate, and solve optimization problems.
- Understand the concepts of stochastic optimization algorithms.
- Analyze and adapt modern optimization algorithms

Assessment Procedure: The students will get certificate after completion of this course with minimum 50% marks in assessment test

Course Outcomes

- To implement optimized PID controller in MATLAB/Simulink.
- To develop optimization algorithms to solve multi-objective problems.
- To integrate optimization technique in power system to improve the power quality.

Course Contents

Topics	Hours
Introduction to Matlab and Simulink.	8
Convex Optimization, Lagrange, Interior point methods	8
SIMPLEX Method, Mixed Integer Linear programming	8
Metaheuristic based Genetic, PSO algorithms	8
Economic load dispatch, capacitor placement	8
Tuning of secondary Controllers of power system.	8
Total Hours	48

Resource person



Dr. Jyothi Ranjan Nayak

Assistant professor, Department of EEE, VIIT



Email ID: dr.jrnayak@vignaniit.edu.in

Mobile: +91-9437509779

Registration link: <https://docs.google.com/spreadsheets/d/dbd-edit?usp=sharing>

Last date of registration – 21st April 2021 (ONLINE)

Coordinator


Mrs. K. Sravanthi
Assistant Professor
Department of Electrical and Electronics Engineering (A)
VIGNAN'S INSTITUTE OF INFORMATION TECHNOLOGY
Email id: kolatusravanthi@vignaniit.edu.in
Mobile: +91- 9502073104
Principal's Signature: 
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Visakhapatnam-49

About the Institute



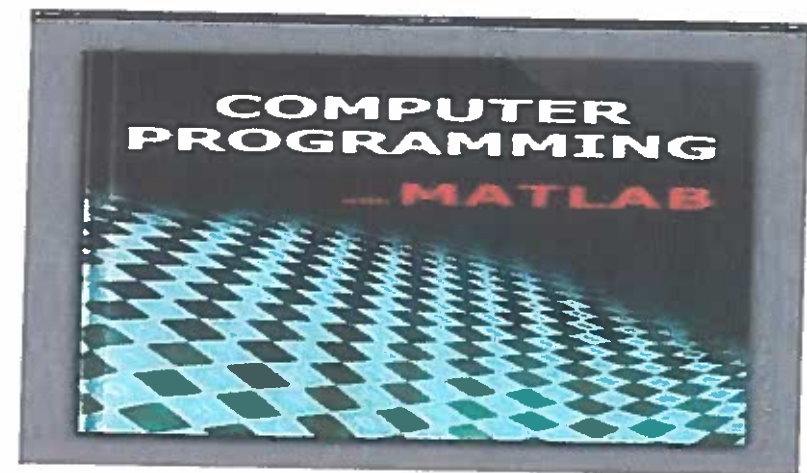
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Value Added Course

On

MATLAB FOR ELECTRICAL ENGINEERS

25th April to 30th April 2021



Organized

By

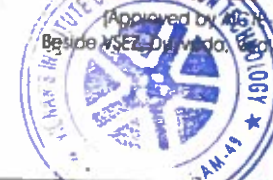
Department of Electrical and Electronics Engineering



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Course Objectives

This course gives guidance on key features of widely used toolboxes in simulink, help transform concepts to a complete model, verify and evaluate the system behaviour in different user environments. It allows the attendees to explore the more advanced features of MATLAB in a unified manner and help learners 'future-proof' themselves and remain relevant for the rapidly evolving technology from industry perspective to know about fundamentals of MATLAB tool

1. To provide an overview to program curve fitting & solve Linear and Nonlinear Equations.
2. To Impart the Knowledge to the students with MATLAB software

Assessment Procedure: The students will get certificate after completion of this course with minimum 50% marks in assessment test

Course Outcomes

1. To use Matlab for interactive computations.
2. To generate plots and export this for use in reports and presentations.
3. To program scripts and functions using the Matlab development environment

Course Contents

Topics	Hours
Introduction To MATLAB	3
Visualization and Programming	3
Solving Equations, Curve Fitting, and Numerical Technique	3
Advanced Methods	3
Various Functions and Toolboxes	4
Variables, Scripts and Operations	4
Visualization and programming	4
Solving Equation and Curve Fitting	4
Advanced methods	4
Symbolics, Simulink, file I/O, building GUIs	4
Total Hours	36

Resource person



Mr. KATHI AVINASH

Assistant Professor, Department of EEE, VIIT

Email ID: avinash.k@vignaniit.edu.in

Mobile: +91-9030364514

Registration link: <https://docs.google.com/spreadsheets/d/dbd-evvkogm-#p=sharing>

Last date of registration – 24th April 2021 (Online)

Coordinator

Mr. T. RAJESH

Assistant Professor

Department of Electrical and Electronics Engineering

Email id: rajesh.tannaeee@vignaniit.edu.in

Mobile: + 91 - 9705279819

About the Institute



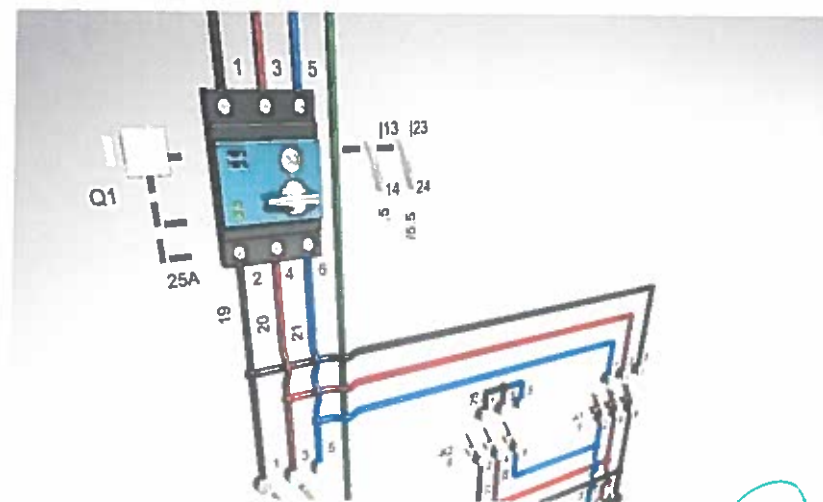
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Value Added Course

On

AutoCAD for Electrical and Automation Engineering

27th April to 3rd May 2021



Organized By **VIGNAN'S INSTITUTE OF INFORMATION TECHNOLOGY (A)**
 Department of Electrical and Electronics Engineering

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 Beside VSEZ, Duwada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

About the Department

The Department of Electrical and Electronics Engineering at Vignan's Institute of Information Technology has been active in teaching and research since its inception 2002. The Department offers four year undergraduate program in Electrical & Electronics Engineering and two years Post-graduate course in Power and Industrial Drives. The Department has state of Art Laboratories with fully equipped latest equipment and modern technical software. The Department has rich experienced and dedicated faculty from reputed institutes. Currently, about 38 committed faculty members are working and engaged in research in the areas of Electrical Machines, Control systems, Power systems, High Voltage Engineering & Power Electronics etc. Faculty are encouraged to take independent initiatives with collective responsibility in all the relevant academic and R&D dimension like innovative teaching, student projects and research supervision, continuous education through organizing conferences, symposia etc.

Course Objectives

AutoCAD Electrical has always been a great tool for engineers and designers to deliver professional work. It is the most popular software of choice for designing and developing professional electrical drawings, PLC diagrams, control and power circuits, and mechanical drawing in any industry.

In this course, student will learn all about the AutoCAD Electrical toolset and toolbar options which helps you design PLC modules, panels, control cabinets, wiring diagrams, and more.

Assessment Procedure: The students will get certificate after completion of this course with minimum 50% marks in assessment test.

Course Outcomes

- Able to learn all practical knowledge required to become a professional design engineer.
- Able to design the power and protection circuits.
- Able implement different logic function with ladder logic

Course Contents

Topics	Hours
AutoCAD Electrical Project Settings	5
Direct On Line (DOL) Starter Circuit	5
Star Delta Starter Circuit	5
Reversible Direct On Line (RDOL) Starter	5
Power Flex DC Drive (Allen Bradley/ Rockwell Automation)	6
Power Flex 753 AC Drive With Bypass (Allen Bradley/ Rockwell Automation)	5
Two Main Incomers with Emergency Changeover	5
Inserting PLC modules and Batch plot	6
Total Hours	42

Resource person



Mr. A. V. SATYANARAYANA

Assistant professor, Department of EEE, VIIT

Email ID: avsatyanarayana@vignaniit.edu.in

Mobile: + 91-7731874931

Registration link: <https://docs.google.com/spreadsheets/d/dbd-ecit?usp=sharing>

Last date of registration – 26th April 2021 (online)

Coordinator



PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Department of Electrical and Electronics
Beside VSEZ, Duvvada, Visakhapatnam-49
Email id: rajeshtanna@gmail.com
Mobile: +91- 9502073104

About the Institute



Vignan's Institute of Information Technology (Autonomous) goal is to be a recognized leader in technical education to be a competent and socially conscious technical workforce for industry needs and national growth. Provide top-tier education and research opportunities in the cut-edge fields of engineering and technology, with a strong emphasis on skills, leadership, and creativity. Students get the opportunity to meet industry professionals through guest lectures, visits to enterprises, internships, sports, cultural, and other extracurricular activities, and guest speakers. VIIT has a best track record of placements in recent years, and students have established their mettle in industry, academics, and administration. A well-ventilated green campus, well-ventilated room classrooms, a state-of-the-art computer centre, a digital library, and a peaceful environment contribute to a pleasant learning experience.

Value Added Course

On

Industrial Automation Using PLC

5th April to 10th April 2021



Programmable Logic Control

Organized

By

Department of Electrical and Electronics Engineering

VIGNAN'S INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)
Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada
Beside VSE7, Duwada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.



PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside VSE7, Duwada, Visakhapatnam-49

About the Department

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Course Objectives

This course is designed to teach the student about the basic knowledge on PLC programming for Industrial Automation. The PLC provided several advantages over earlier automation systems. It tolerated the industrial environment better than computers and was more reliable, compact and required less maintenance than relay systems. It was easily extensible with additional I/O modules, while relay systems required complicated hardware changes in case of reconfiguration.

Assessment Procedure: The students will get certificate after completion of this course with minimum 50% marks in assessment test

Course Outcomes

- To understand the concepts of Industrial Automation.
- To get proficiency in Programmable Logic Controllers (PLC)
- Able to design and implement real-world automation projects.
- To get prepared for Industrial automation-related careers.

Course Contents

Topics	Hours
Identify the automation requirements	6
Design the control system	6
Install and configure the PLC hardware	6
Program the PLC	6
Test and debug the system	6
Commission and deploy the system	6
Total Hours	36

Resource person



Dr. B Arundathi

Professor, Department of EEE, VIIT

Program Venue: (Offline), Power Electronics Lab, VIIT

Email ID: arundhatib@rediffmail.com

Mobile: 9393860760

Registration link: <https://docs.google.com/spreadsheets/d/fbuvgdit?usp=sharing>

Last date of registration – 4th April 2021



Coordinator

PRINCIPAL

Dr. A.V. Satyanarayana
VIGNAN'S INSTITUTE OF
Information Technology (A)

Assistant Professor: V. Z. Duvvada, Vignan's Institute of Information Technology (A)

Department of Electrical and Electronics Engineering

Email id: avsatyanarayana@vignaniit.edu.in

Mobile: + 91 - 7731874931

About the Institute



Vignan's Institute of Information Technology (Autonomous) goal is to be a recognized leader in technical education to be a competent and socially conscious technical workforce for industry needs and national growth. Provide top-tier education and research opportunities in the cut-edge fields of engineering and technology, with a strong emphasis on skills, leadership, and creativity. Students get the opportunity to meet industry professionals through guest lectures, visits to enterprises, internships, sports, cultural, and other extracurricular activities, and guest speakers. VIIT has a best track record of placements in recent years, and students have established their mettle in industry, academics, and administration. A well-ventilated green campus, well-ventilated room classrooms, a state-of-the-art computer centre, a digital library, and a peaceful environment contribute to a pleasant learning experience.

Value Added Course

On

IoT Development with Raspberry Pi

2nd June to 13th June 2021



Organized

By

Department of Electrical and Electronics Engineering
Principal
VIGNAN'S
INSTITUTE OF INFORMATION TECHNOLOGY (A)
(AUTONOMOUS)



(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Vignan's VSEL, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

About the Department

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Course Objectives

This course enables the student focuses on hands-on IoT concepts such as sensing, actuation and communication. This course focusses on the Introduction of Industrial Internet of Things (IIOT), Fundamentals of M2M Communication, Overview of Mindsphere used in Industrial Automation, and Hands on projects based on Raspberry pi and Node red, Posting Data on Siemens Mindsphere

1. To learn to have devices that self report in real-time
2. To learn basics, browsing the internet and playing high-definition video
3. To remote control and remote monitoring of industrial devices

Assessment Procedure: The students will get certificate after completion of this course with minimum 50% marks in assessment test

Course Outcomes

1. To collect and analyze telemetry from connected sensors, devices.
2. To identify the Components that forms part of IoT Architecture.
3. To analyze data from things (devices) that were previously disconnected from most data processing tools

Course Contents

Topics	Hours
Introduction to Raspberry pi	3
Understanding the raspberry pi components and their functions	3
How to install Raspbian OS on Raspberry pi	3
Raspberry pi Application Bar	3
How to Set up the Home Screen	4
Raspberry pi Sensors and Module Kits	4
Making Files and Navigating The File System	4
Introduction To Shell	4
How To Update Raspberry pi Operating System	4
Internet of Things Services	4
Total Hours	36

Resource person



Dr. PUDI SEKHAR

Assistant professor, Department of EEE, VIIT

Email ID: drpudisekhar@vignaniit.edu.in

Mobile: 9885981202

Registration link: <https://docs.google.com/spreadsheets/d/dbd-evnur-#p=sharing>



Date of registration – 1st june 2021(online)

Coordinator

Mr. A.V.Satyanarayana

Assistant Professor

Department of Electrical and Electronics Engineering

Email id: avsatyanarayana@vignaniit.edu.in

Mobile: + 91 - 7731874931

PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Vignan's Institute of Information Technology, Vignan VEEZ, Duvvada, Visakhapatnam-49

ABOUT THE INSTITUTION



Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Vishakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course on

Design of basic steel structures used in plant constructions

24/08/2020 to 28/08/2020



ORGANIZED BY

DEPARTMENT OF MECHANICAL ENGINEERING



VIGNAN's

INSTITUTE OF INFORMATION TECHNOLOGY

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049



PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duvvada, Visakhapatnam-49

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was started in the year 2004 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains qualified and experienced faculty.

COURSE OBJECTIVES

- To provide a coherent development to the students for the courses in sector of Designing of the Steel Structures.
- To present the foundations of many basic Engineering concepts related Design of Steel Structures.
- To give an experience in the implementation of engineering concepts which are applied in field of Steel Structures.
- To involve the application of scientific and technological principles of planning, analysis, design of buildings.

COURSE OUTCOMES

At the end of the course, students will be able to achieve the following outcomes:

- The students will gain an experience in the implementation of Design of Steel Structures on engineering concepts which are applied in field Structural Engineering.
- The students will get a diverse knowledge of Design of Steel engineering practices applied to real life problems
- The students will learn to understand the theoretical and practical aspects of Design of
- Steel Structure along with the planning and design aspects.

COURSE CONTENTS

Topics	Hours
Introduction to structural members	6
Flexural design for beams	7
Design of footing, torsion design	7
Connections	6
Plastic Design	6
Total Hours	32

RESOURCE PERSON



Mr. S Sridhar
Project Manager,
GVK Industries
Email: srihar.sivakoti9@gmail.com
Ph: 8790756431



COORDINATOR

B. N. Dhanunjayaram
Assistant Professor
Department of Mechanical Engineering
Email: dhanunjayborra@gmail.com
Mobile: 8332923677

PRINCIPAL

VIGNAN'S INSTITUTE OF
Information Technology (A)
Resident, S.T. D. Uvada, Visakhapatnam-49

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/6VXkXmBK2k2ffxJR9>
Last date of Registration: 23/8/2020

ABOUT THE INSTITUTION

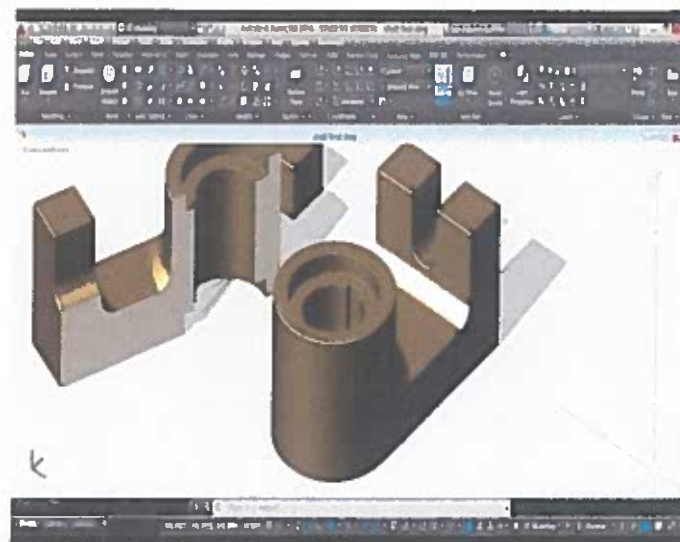


Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Vishakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course On

DRAFTING OF MACHINE COMPONENTS USING AUTO CAD

2/06/2020 to 6/06/2020



ORGANIZED BY

DEPARTMENT OF MECHANICAL ENGINEERING



VIGNAN's

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Vishakhapatnam - 530 048



PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duvvada, Vishakhapatnam - 530 048

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was started in the year 2004 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains qualified and experienced faculty.

COURSE OBJECTIVES

- To impart the parametric fundamentals to create and manipulate geometric models using curves, surfaces and solids.
- Demonstrate basic concepts of the AutoCAD software.
- Apply basic concepts to develop construction (drawing) techniques.
- Ability to manipulate drawings through editing and plotting techniques.

COURSE OUTCOMES

- The students will be able to
- create different wireframe primitives using parametric representations.
- Create surface primitives using parametric modelling.
- Create the different solid primitives using the different representation schemes.

COURSE CONTENTS

Topics	Hours
Introduction to AutoCAD	6
Basic Drawing Skills	6
Editing feature, Dimensioning and Annotation	6
Modelling of machine parts	6
Drafting of machine components	6
Total Hours	30

RESOURCE PERSON



Mr. K. Harish Kumar
Assistant Professor
Department of Mechanical Engineering, VIIT(A)
E-Mail: harishkumar.aero@gmail.com
Mobile No: 8125663333



COORDINATOR

B. N. Dhanunjayarao
Assistant Professor
Department of Mechanical Engineering, VIIT (A)
Email: ghanunjayborra@gmail.com
Mobile: 8332923677

PRINCIPAL

VIGNAN'S INSTITUTE OF
Information Technology (A)
Vignans Institute of Information Technology (A)
Vignans Institute of Information Technology (A)

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/gfSVmCYV8nWcmjFi7>

ABOUT THE INSTITUTION



Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Vishakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course on

Modeling of Machine parts using Fusion 360

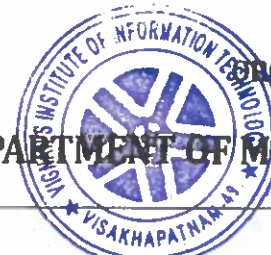
03/11/2020 to 07/11/2020

AUTODESK

CADSoft



AUTODESK[®] FUSION 360[™]



ORGANIZED BY
DEPARTMENT OF MECHANICAL ENGINEERING
PRINCIPAL
VIGNAN'S INSTITUTE OF
INFORMATION TECHNOLOGY (A)
Beside: VSEZ, Duvvada, Visakhapatnam-49



VIGNAN's

INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was started in the year 2004 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains qualified and experienced faculty.

COURSE OBJECTIVES

After completion of the course, students will be able

- Understanding of the computer aided modelling.
- Knowledge of part drawing and assembly modelling.
- Experience of simulation of various machine components.

COURSE OUTCOMES

At the end of the course the students will be able to

- Convey the technical information in an industrial drawing.
- Design their product from idea to prototype.
- Know, identify, interpret and apply the current standards on Industrial Technical Drawing.
- Convey the technical knowledge to real time applications.

COURSE CONTENTS

Topics	Hours
Introduction to Fusion 360 software. Creating the First Feature with Quick Shapes.	6
Detailed description to Creating Sketched Geometry with Additional Sketching Tools	6
Additional Features and Operations Single Path Sweeps & Loft Features	6
Component Design Tools, Multi-Body Design and assembly	6
Static Analysis Using the Simulation Environment	6
Total Hours	30

RESOURCE PERSON



Dr. K. S. Raghuram, Associate Professor
Department of Mechanical Engineering, VIIT (A).

COORDINATOR

Mr. B. N. Dhanunjayarao, Assistant Professor
Department of Mechanical Engineering, VIIT (A)

Email: bdhanunjayarao@gmail.com Mobile: +91-8332923677

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/EcEuPN3Gfcm4m88m49>
Last date of Registration: 27/11/2020



VIGNAN'S INSTITUTE OF INFORMATION TECHNOLOGY (A)
Beside: VSEZ, Duvvada, Visakhapatnam-49

ABOUT THE INSTITUTION



Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Vishakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course

on

Design Pre-Engineered building steel structures used in green belt companies.

21/9/2020 to 25/9/2020



ORGANIZED BY
DEPARTMENT OF MECHANICAL ENGINEERING
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duvvada, Visakhapatnam-49



VIGNAN's

INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was started in the year 2004 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains qualified and experienced faculty.

COURSE OBJECTIVES

- To make the students enable at par to Industry aligned companies.
- To make the students enable to validate and benchmarking their experience.

COURSE OUTCOMES

At the end of end of the course students will be able to

- Prepare detailing engineering drawings for all Design engineer for PEB steel structural.
- Analyze AOE's deliverables for all Design engineer for PEB steel structural.
- Explain about integration AOD's.
- Demonstrate AOE's in respective design engineer for PEB steel structural.

COURSE CONTENTS

Topics	Hours
Type of Steel structure	7
Structural design process	7
Structural Loads	7
Design & Modelling of bracing systems	7
Design & Modelling of joints and columns	7
Total Hours	35

RESOURCE PERSON



Mr. S. Sridhar, Project Manager
GVK Industries, Visakhapatnam (A.P.)

COORDINATOR

Mr. B.N.Dhanunjayarao, Assistant Professor
Department of Mechanical Engineering, VIIT (A)
Email: dhanunjayaraoborra@gmail.com Mobile: +91-8332923677

Assessment: The students will get the certificates after completion of this course with the minimum 80% marks in the assessment test.

Registration link: <https://forms.gle/USeZeqZpcg8fR8Qm7>
Last date of Registration: 19/9/2020

PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
B-11, V-117, Duvvada Visakhapatnam-49

ABOUT THE INSTITUTION



Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Vishakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course

on

Modelling using NX on 3D experience platform.

01/07/2020 - 05/07/2020



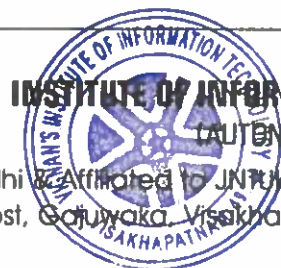
ORGANIZED BY

DEPARTMENT OF MECHANICAL ENGINEERING



VIGNAN's

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 006



INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside VSEZ, Duvvada, Visakhapatnam-49

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was started in the year 2004 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains qualified and experienced faculty.

COURSE OBJECTIVES

- Students will acquire the knowledge needed to complete the process of designing models
- Experience of simulation of various components
- Knowledge of part drawing and assembly modelling

COURSE OUTCOMES

At the end of end of the course students will be able to

- Students will acquire knowledge needed to complete the process of design models
- Convey the technical information in an industrial drawing
- Differentiate the various factors determining the usage of industrial drawing
- Analyse the design parameters of machine components

COURSE CONTENTS

Topics	Hours
Introduction to NX ON 3D	6
Description to solid modelling tools.	6
Description to assembles and constraints.	6
Description to materials and drawings.	6
Introduction to Engineering analysis.	6
Total Hours	30

RESOURCE PERSON



Mr. K. Harish Kumar

Assistant Professor

Department of Mechanical Engineering, VIIT (A)

Email: harishkumar.aero@gmail.com



COORDINATOR

Mr. B. N. Dhanunjayarao, Assistant Professor
Department of Mechanical Engineering, VIIT (A)

Email: ghanunjayaraoborra@gmail.com Mobile: +91-8332923677

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/USEZeqZpcg8fR8Qm7>

Last date of Registration: 30/6/2020

ABOUT THE INSTITUTION



Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Vishakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course


on

Automation of automobile industries using
advance robotics

05-10-2020 to 9-10-2020



ORGANIZED BY
DEPARTMENT OF MECHANICAL ENGINEERING
PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duvvada, Visakhapatnam


INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)



VIGNAN's

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

ABOUT THE DEPARTMENT

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COURSE OBJECTIVES

- List the role and responsibilities of an Automation and Robotics Engineer.
- Discuss the job opportunities for an Automation and Robotics Engineer in the automobile industry.
- Explain about Indian automobile manufacturing market.

COURSE OUTCOMES

At the end of end of the course students will be able to

- List various automobile Original Equipment Manufacturers (OEMs)
- Identify different products/ models manufactured
- Discuss manufacturing and automotive product design standards
- Analyze the procedures followed in the company

COURSE CONTENTS

Topics	Hours
Introduction, Origin of automation, robot joints, classification of robots, work volume	6
Vectors, spatial descriptions, rotation matrix, homogenous transformation matrix	6
DH Parameters	6
Forward Kinematics	6
Jacobian, Singularity, Manipulation ability	6
Total Hours	30

RESOURCE PERSON



Mrs. V.Naga Sudha, Assistant Professor
Department of Mechanical Engineering, VIIT (A)
Email: sudhamech324@gmail.com

COORDINATOR

Mr. B. N. Dhanunjayarao, Assistant Professor
Department of Mechanical Engineering, VIIT (A)
Email: dhanunjayarao@vignans.edu.in Mobile: 91-8332923677

PRINCIPAL

VIGNAN'S INSTITUTE OF
Information Technology (A)
Reside: VSEZ, Duwada, Visakhapatnam-49

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/USEZeqZpcg8fR8sr8>

Last date of Registration: 04/10/2020

ABOUT THE INSTITUTION



Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Vishakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course

on

DEFECT FINDING USING NON-DESTRUCTIVE TESTING TECHNIQUES- INDUSTRIES APPROACH

16/6/2020 to 20/6/2020

Nondestructive Testing (NDT)

Solutions in Engineering



ORGANIZED BY

DEPARTMENT OF MECHANICAL ENGINEERING



VIGNAN's

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

INSTITUTE OF INFORMATION TECHNOLOGY



PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duvada, Visakhapatnam-49

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was started in the year 2004 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains qualified and experienced faculty.

COURSE OBJECTIVES

After completion of the course, students will be able

- To provide students with a strong knowledge of terms, concepts, principles etc. involved in non-destructive testing.
- To provide practical training in handling and testing the non-destructive testing equipment's.
- To develop knowledge and skills for interpretation and evaluation of the results.
- To offer environment to enhance team essential skills for effective careers in the inspection profession.

COURSE OUTCOMES

At the end of the course the students will be able to

- Ability to understand the basic theory and principles of NDT methods.
- Understand the scope and limitations of the techniques and methods and use of appropriate measurement techniques to collect data.
- Ability to set-up, calibrate the equipment's and to conduct the testing independently.
- Demonstrate the ability to organize and report the results of the

COURSE CONTENTS

Topic	Hours
NDE: An Introduction and Visual testing (VT)	6
Liquid Penetrant Testing (PT)	6
Magnetic Particle Testing (MT)	6
Radiographic Testing (RT)	6
Ultrasonic Testing (UT)	6
Total Hours	30

RESOURCE PERSON



Mr. B.N. Dhanunjaya Rao, Assistant Professor
Department of Mechanical Engineering, VIIT (A).

COORDINATOR

Mr. K. Harish Kumar, Assistant Professor
Department of Mechanical Engineering, VIIT (A)

Email: harishk@vignans.edu Mobile: **+91-8125663836**

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/xhvjhoxofWvjawk6>

Last date of Registration: 15/6/2020

About the Institution



Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Visakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course on

English for Specific Purpose

02-06-21 TO 12-06-21

PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duwada, Vi-l hapt -m-49



Organized

By

Department of Electronics and Communication Engineering



VIGNAN'S INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duwada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

About the Department

The Department of ECE was started in the year 2002. The department offers an undergraduate programme (B.Tech) and two postgraduate programmes (M.Tech) – ECE and DECS. The department aims to provide the best quality education for both graduate and postgraduate levels, while encouraging research and development to achieve academic excellence with the trusted areas like, Signal Processing, RF and Micro Wave, Wireless Communication, VLSI, and embedded system etc. The department has a team of highly qualified and experienced teaching faculty.

Course Objectives

- To develop the overall English proficiency of students and enable them to function effectively in different professional contexts.
- To strengthen student skills in the areas of reading, writing, listening and speaking and enable them to function effectively in their professional sphere

Course Outcomes

By the end of the course, students will be able to:

- Read, understand and interpret material on Environment, Science and Technology, tourism, Energy Sources, Social Awareness
- The students will be able to analyse the functions of language and grammar in spoken and written forms.
- The students will be able to write effectively on various domains.
- The students will be able to prepare and exhibit oral presentation skills by using ICT

Course Content

Topic	Hours
Just A Minute, read a novel and Write Review, listening to an audio and answer the questions	9
Listening to an audio and answer the questions, how to introduce a guest in an event	9
Mock Anchoring, write a press note for an event	5
Interpersonal Skills, watch a movie and write a review, Situational Dialogues, Generating ideas for Extempore	7
Total Hours	30

Resource person

Dr.K.G.B. Santhosh Kumari, Associate Professor
Department of Basic Science & Humanities, VIIT(A)
E-Mail: santhosh29982@gmail.com, Mobile No: 9441944908

Coordinator


Mr. A. Usha Rani, Assistant Professor,
Department of Electronics and Communication Engineering
Mobile: 9490432689, Email Id: ushaviit@gmail.com
Beside: VSEZ, Duvvada, Visakhapatnam-49

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/w5sarecoiouygnwr6>

Last date to registration: 01-06-2021

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Value Added Course

On

Introduction to MATLAB PROGRAMMING

02-04-21 TO 16-04-21



Organized
By **VIGNAN'S INSTITUTE OF**
Department of Electronics and Communication Engineering
Beside: VSEZ, Duvvada, Visakhapatnam
VIGNAN's INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)
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Course Objectives

- To make students capable to simulate their own projects through powerful software packages and enhances the student knowledge up to industrial grade.
- Understand the basics of MATLAB

Course Outcomes

Student able to

- Understand the basics of MATLAB.
- Break a complex task up into smaller, simpler tasks
- Perform the Case Study, fuzzy logic (Any two Modules)
- Design the simple communication circuits to evaluate their performance

Course Content

Topics	Hours
Basics of Matlab and MATLAB Compiler	4
The Matlab user interface	4
Creating matrices and arrays	4
Data import and Export	4
Programming with simple examples	4
Discussion of Toolboxes with Applications	4
Signal Processing	4
Fuzzy Logic Toolbox	4
Total Hours	32

Resource person



Mr. T. AJAY, Assistant Professor,
Department of electronics and communication, VIIT (A)

Coordinator



PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (AI)
Department of Electronics and Communication Engineering
Mobile: 7569153732; Email Id: pechettytirumalarao@gmail.com

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/w5jCbqyKnzxcnZ4>

Last date of Registration: 25-03-21

About the Institution

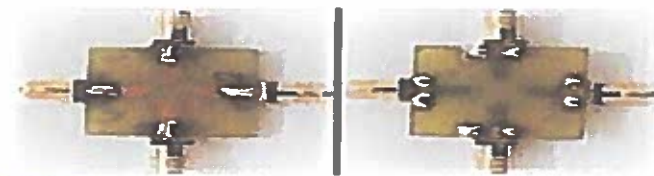
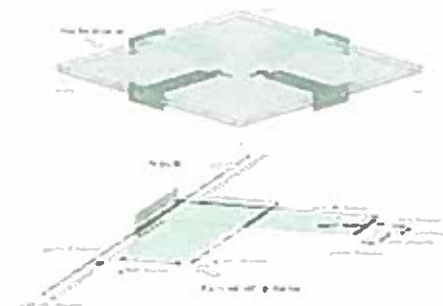


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Value Added Course On

DESIGN OF MIMO ANTENNA

02-04-21 to 11-04-21



Organized
By **PRINCIPAL**
VIGNAN'S INSTITUTE OF
Department of Electronics and Communication Engineering
Information Technology (A)
Beside: VSEZ, Duwada, Visakhapatnam - 530 049
VIGNAN'S
INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)
(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duwada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

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Course Objectives

- To create an awareness about the Upcoming Technology.
- To Understand the MIMO Antenna Technology
- Students can design the MIMO Antenna and analyse it.

Course Outcomes

At the end of the course the students will able to

- Learn the MIMO Technology
- Design Parameters and challenges in MIMO Antenna
- Analysis of MIMO Antenna
- Advantage of MIMO Antenna

For registration: <https://forms.gle/QK8mZ9kRPCom1vNc8>

Last date of Registration: 25-03-2021

Course Content

Topics	Hours
Introduction of Antennatechnology	4
Antenna Basic Parameters	4
HFSS Basic	4
MIMO Technology	4
Two Element MIMOwithout isolation	4
Two Element MIMO withIsolation	4
Four Element MIMOwithout isolation	4
Four Element MIMO withisolation	4
Total hours	32

Resource person



Dr.Sourav Roy, Associate Professor
Department of Electronics and Communication Engineering

Coordinator



Mr. A. Usha Rani, Assistant Professor
Department of Electronics and Communication Engineering (A)
Mobile: 9496432089, Email Id: usha.vit@gmail.com

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

About the Institution



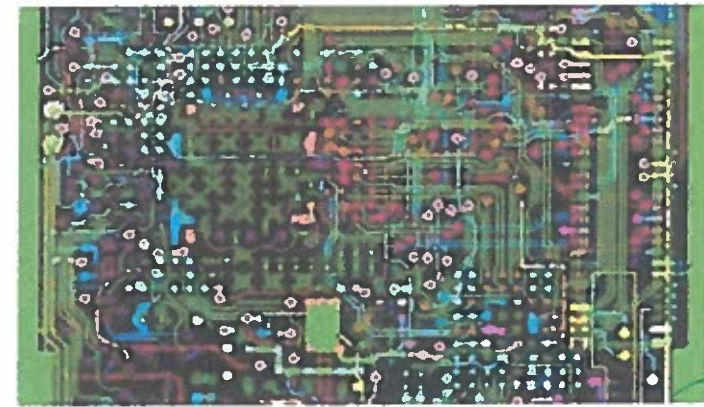
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Value Added Course

on

Introduction to PCB Design

08-07-21 to 19-07-2021



Organized

By **VIGNAN'S** PRINCIPAL
Department of Electronics and Communication Engineering
Beside: VSEZ, Duvvada, Visakhapatnam-49
INSTITUTE OF INFORMATION TECHNOLOGY
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Course Objectives

Student will understand

- Understand the steps involved in schematic, layout, fabrication and assembly process of PCB design.
- Design (schematic and layout) PCB for analog circuits, digital circuits and mixed circuits.

Course Outcomes

Student is able to

- Create the new applications in areas of IoT.
- Develop the Cloud Sensor Networks by using Internet of things and mobile devices, •
- Choose building blocks of Internet of Things and cloud monitoring using mobile and Arduino platform.

Course Content

Topics	Hours
1.Introduction PCB Designing	4
2.Installation of Altium Software	4
3.Altium Tutorial and Circuit Simulation	4
4.PCB Design, Schematic and 3D Visualizer in Altium	4
5.230v To 5v Regulator	4
6.MT3608 DC-DC Booster	4
7.Introduction to Proteus and Voltage Measuring Simulation	4
8.Arduino Libraries into Proteus and Circuit Designing	4
Total Hours	32

Resource person



Mr. M. KARUNA, Associate Professor, **PRINCIPAL**
Department of Electronics and Communication Engineering
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duvvada, Visakhapatnam-49

Coordinator

Mr. A. Usha Rani, Associate Professor,
Department of Electronics and Communication Engineering
Email Id: ushaviit@gmail.com

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/dgf435jCbqyKnzxnhm4>

Last date of Registration: 04-07-21



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ABOUT THE INSTITUTION

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ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was started in the year 2002 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The Department has made a significant progress within few years. The objective of the Department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The Department contains efficient and eminent faculty & senior faculty. The department has state-of-the-art infrastructure and computing equipment supported by high-speed Ethernet and wireless networks. Student organization like ACM Chapter is active throughout the year.

VALUE ADDED COURSE ON

INTRODUCTION TO MONGODB

7th Dec 2020 to 16th Dec 2020

Venue: AKCNB, MAIN BLOCK, VIIT



PRINCIPAL ORGANIZED BY
VIGNAN'S INSTITUTE OF
INFORMATION TECHNOLOGY (A)
Beside: VSEZ, Duwada, Visakhapatnam
DEPARTMENT OF
COMPUTER SCIENCE
AND ENGINEERING

Course Objectives

The objective of the course is to make the students will get an understanding of NoSQL databases, design goals, requirement of NoSQL database/ MongoDB, MongoDB® architecture and introduction to JSON and BSON among others. This module will also cover the installation of MongoDB® and associated tools.

Course Outcomes

By the end of the course, students will be able to:

- Create and manage different types of indexes in MongoDB for query execution.
- Analyze unstructured data in MongoDB and develop skills for processing huge amounts of data using MongoDB tools
- Create single and multikey indexes, as well as how to delete indexes.
- Develop expertise writing Java and NodeJS applications using MongoDB

Register through this link
on or before 6-12-2020

<https://forms.gle/R7fBGwxh8MfNJPp6>

Course Contents

Topics	Hours
MongoDB Advantages, Environment, Data Modelling, MongoDB — Create Database, Drop Database, Create Collection	8
MongoDB — Drop Collection, Datatypes, Insert Document, Query Document, MongoDB — Update Document, Delete Document	8
MongoDB — Sort Records, Indexing, Aggregation, MongoDB — Replication, Sharding, Create Backup	8
CRUD Operation in MongoDB, Data Modelling, Storage Classes, Indexing and Performance Considerations	8
Total Hours	32

Assessment

Upon completion of course the assessment procedure was done by Multiple choice questions.

Resource Person



Mr. Mohan Mahanty
Assistant Professor

Department of Computer Science and Engineering, VIIT(A)
E-Mail: mahanty.mohan@gmail.com
Mobile No: 8790256726

Coordinator

Mrs. Avantika Tiwari
Assistant Professor

Department of Computer Science and Engineering, VIIT(A)
E-Mail:
avantika.tiwari92@gmail.com
Mobile No: 6398299156



VIGNAN's

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VALUE ADDED COURSE ON

ANDROID APPLICATION DEVELOPMENT

From APRIL 6th 2021 to APRIL 12th 2021



Venue: T. R. E. Corner's Lee Lab, Main Block, VIIT

ORGANIZED BY

DEPARTMENT OF COMPUTER
SCIENCE AND ENGINEERING

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was started in the year 2002 with first rate infrastructural facilities right from its inception. Its sole purpose has been to impart quality education to the students and inculcate in them competitive spirit for academic excellence. The Department has made a significant progress within a short span of time. Its main objective is to develop logical thinking through problem solving in the students and to train them in the latest technologies as per the industrial needs. The Department has several eminent & senior faculties who have excelled in their respective areas. The Department has state-of-the-art infrastructure and computing equipment supported by high-speed Ethernet and wireless networks. Student organizations like ACM Chapter is active throughout the year.



COURSE OBJECTIVE

To enable the faculty/Students of Engineering Colleges to be able to develop android apps.

COURSE OUTCOMES

Upon completion of the subject, students will be able to:

- Apply their understanding of the fundamentals of Android operating systems.
- Demonstrate their skills of using Android software development tools.
- Develop software with reasonable complexity on mobile platform.
- Deploy software to mobile devices.

REGISTER THROUGH THIS LINK ON
OR BEFORE 5-04-2021

<https://forms.gle/3TmRUXoMDtoZnYKG9>

COURSE CONTENTS

Topics	Hours
Introduction to Mobile App Development a.History of Mobile evolution b.Version History of Android, Android Architecture, Installing the Development Environment, Installation of Android Studio, Installation of Android emulator, Connecting the physical device with the IDE.	10
Creating the first application, Creating a User Interactable App, Activity Lifecycle, User Interface Components, Buttons and Clickable Images, Input Controls	10
Menus & Pickers, Using Material Design for UI User Navigation, Recycler view	10
Working in the background Schedulers, Saving user Data	6
Total Hours	36

ASSESSMENT

Upon completion of course the assessment procedure was done by Multiple choice questions.

RESOURCE PERSON

Mr.Ch. Avinash
APSSDC

Andhra Pradesh State Skill Development Corporation (Department of Skills Development & Training, Govt of Andhra Pradesh)


COORDINATOR

Mr. Ch Sekhar
Assistant Professor

Department of Computer Science and Engineering, VIIT(A)

E-Mail: sekhar1203@gmail.com

Mobile No: 9949006418


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VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duwada, Visakhapatnam-49



VIGNAN's INSTITUTE OF INFORMATION TECHNOLOGY (AUTONOMOUS)

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ABOUT THE DEPARTMENT

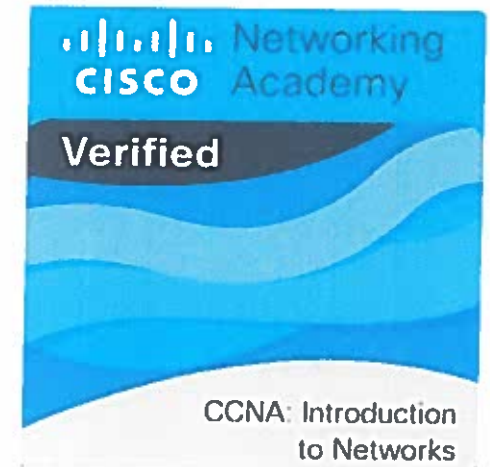
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PRINCIPAL
VIGNAN'S INSTITUTE OF
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Beside: VSEZ, Duwada, Visakhapatnam-49

VALUE ADDED COURSE ON CCNA – INTRODUCTION TO NETWORKS

APRIL 6TH 2021- APRIL 19TH 2021



ORGANIZED BY
DEPARTMENT OF
COMPUTER SCIENCE
AND ENGINEERING

COURSE OBJECTIVES

The Objective of the course is to develop a working knowledge of IP addressing schemes, foundational network security, and student will be able to perform basic configurations on routers and switches.

COURSE OUTCOMES

By the end of the course, students will be able to:

- Build simple LANs, perform basic configurations for routers and switches, and implement IPv4 and IPv6 addressing schemes.
- Configure routers, switches, and end devices to provide access to local and remote network resources and to enable end-to-end connectivity between remote devices.
- Develop critical thinking and problem-solving skills using real equipment and Cisco Packet Tracer.
- Configure and Troubleshoot connectivity a small network using security best practice.

REGISTER THROUGH THIS LINK ON OR BEFORE 05-04-2021

<https://forms.gle/ZRWXWQDYBW2RRBU9>

COURSE CONTENTS

TOPICS	HOURS
Course Introduction Content, The DevNet Developer Environment Content, Software Development and Design Content.	12
Understanding and using APIs, Network Fundamentals, Application Deployment and Security	14
Infrastructure and Automation Content	12
Cisco Platforms and Development Content	4
Total Hours	42

ASSESSMENT

Upon completion of course the Assessment procedure was done by Multiple choice questions.

RESOURCE PERSON



Mr. D Bhanu Prakash
Assistant Professor

Department of Computer Science and Engineering, VIIT(A)
E-Mail: bhanu.wari99@gmail.com
Mobile No: 9908003894

COORDINATOR

Mrs. Y Srilatha
Assistant Professor

Department of Computer Science and Engineering, VIIT(A)
E-Mail: srilatha.yalamati@gmail.com
Mobile No: 9502341386



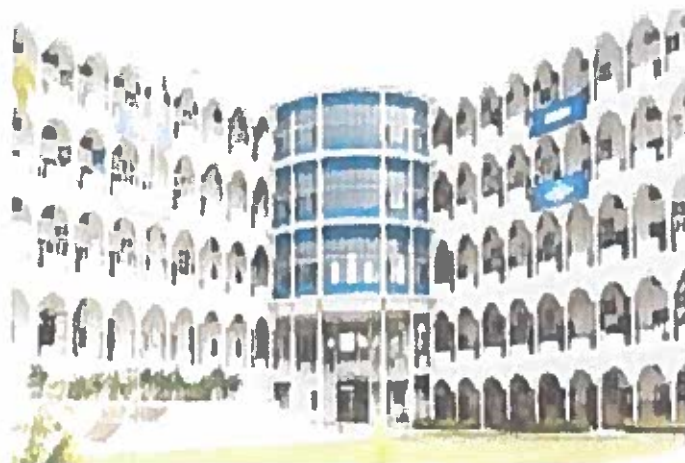
VIGNAN's

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320
PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside VSEZ, Duwada, Visakhapatnam-49

VALUE ADDED COURSE ON AWS ACADEMY CLOUD FOUNDATIONS

June 7th 2021 – July 26th 2021

Venue: Online, Zoom Platform



ORGANIZED BY
**DEPARTMENT OF
COMPUTER SCIENCE
AND ENGINEERING**

COURSE OBJECTIVES

- The Department has state-of-the-art infrastructure and computing equipment supported by high-speed Ethernet and wireless networks. Student organization like ACM Chapter is active throughout the year.
- Explain the AWS pricing philosophy
- Identify the global infrastructure components of AWS
- Describe the security and compliance measures of the AWS Cloud, including AWS Identity and Access Management (IAM)

COURSE OUTCOMES

By the end of the course, students will be able to:

- Differentiate between Amazon Simple Storage Service (Amazon S3), Amazon Elastic Block Store (Amazon EBS), Amazon Elastic File System (Amazon EFS), and Amazon Simple Storage Service Glacier (Amazon S3 Glacier).
- Explain the architectural principles of the AWS Cloud.
- Explore key concepts related to Elastic Load Balancing, Amazon CloudWatch, and Amazon EC2 Auto Scaling.
- Demonstrate when to use AWS database services, including Amazon Relational Database Service (Amazon RDS), Amazon DynamoDB, Amazon Redshift, and Amazon Aurora.

COURSE CONTENTS

TOPICS	HOURS
Cloud Concepts Overview, Cloud Economics and Billing	9
AWS Global Infrastructure Overview, Cloud Security	9
Networking and Content Delivery, Compute	8
Storage, Databases, Cloud Architecture, Automatic Scaling and Monitoring	19
Total Hours	45

ASSESSMENT

Upon completion of course the assessment procedure was done by Multiple choice questions.

RESOURCE PERSON



Mr. Ch Sekhar
Assistant Professor
Department of Computer Science and Engineering, VIIT(A)
E-Mail: sekhar1203@gmail.com
Mobile No: 9949006418

REGISTER THROUGH THIS LINK ON OR BEFORE 6-6-2021

<https://forms.gle/Nw7qVKf94hUGBbla6>



PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duvvada, Visakhapatnam-49

COORDINATOR

Mrs.A.Reethika Reddy
Assistant Professor
Department of Computer Science and Engineering, VIIT(A)
E-Mail: anumala.reethu34@gmail.com
Mobile No: 8519823629



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[Signature]
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Beside VSEZ, Duvvada, Visakhapatnam - 530 049

VALUE ADDED COURSE ON AWS ACADEMY MACHINE LEARNING FOUNDATIONS

JULY 1st 2021 - JULY 31st 2021

VENUE
ONLINE, ZOOM PLATFORM



Amazon
Machine Learning



ORGANIZED BY
**DEPARTMENT OF COMPUTER
SCIENCE AND ENGINEERING**

COURSE OBJECTIVE

to enable the students to learn the concepts of machine learning and develop real word applications

COURSE OUTCOMES

At the end of this course, students will be able to -

Implement a machine learning pipeline using Amazon Sage Maker.

Apply Amazon ML services for forecasting

Apply Amazon ML services for computer vision

Apply Amazon ML services for natural language processing.

COURSE CONTENTS

TOPICS	HOURS
Welcome to AWS Academy Machine Learning Foundations,Introducing Machine Learning	10
Implementing a Machine Learning pipeline with Amazon Sage Maker, Introducing Forecasting	10
Introducing Computer Vision (CV), Introducing Natural Language Processing, Course Wrap-Up	10
Total Hours	30



**REGISTER THROUGH THIS LINK
ON OR BEFORE 30-06-2021**

<https://forms.gle/YjMUeSMi1mVWXRn7>

ASSESSMENT

UPON COMPLETION OF COURSE THE ASSESSMENT PROCEDURE WAS DONE BY MULTIPLE CHOICE QUESTIONS.

RESOURCE PERSON



MR. CH SEKHAR

ASSISTANT PROFESSOR

**DEPARTMENT OF COMPUTER
SCIENCE AND ENGINEERING, VIIT(A)**

E-MAIL: sekhar1203@gmail.com

MOBILE NO: 9949006418

COORDINATOR

MRS. P. SANDHYA

ASSISTANT PROFESSOR

**DEPARTMENT OF COMPUTER SCIENCE
AND ENGINEERING, VIIT(A)**

E-MAIL: sandhya.cse40@gmail.com

MOBILE NO: 9440778192



VIGNAN's

INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

[Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada]
Beside VSEZ, Duwada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

ABOUT THE INSTITUTION

Vignan's Institute of Information Technology (VIIT) was established in 2002 in the City of Destiny, Visakhapatnam, to cater to the educational needs of the general public.

It acquired Autonomous status in the year 2017. The institute got accredited by NBA and NAAC. The experience gained by Vignan through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the institute's success.



ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was started in the year 2002 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence.

The Department has made a significant progress within few years. The objective of the Department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The Department contains efficient and eminent faculty & senior faculty.



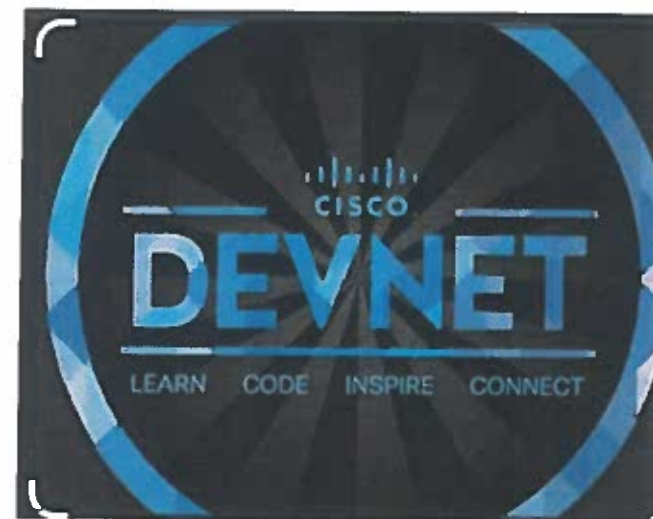
PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duwada, Visakhapatnam - 530 049

VALUE ADDED COURSE ON

CISCO DevNet Associate

28th July 2021- 13th August 2021

Venue: Seminar Hall -1, Main Block, VIIT



ORGANIZED BY

DEPARTMENT OF COMPUTER
SCIENCE AND ENGINEERING

Course Objectives

Students completing this course, gain practical, relevant, hands-on lab experience, including programming in Python, using GIT and common data formats (JSON, XML and YAML), deploying applications as containers, using Continuous Integration/continuous Deployment (CI/CD) pipelines and automating infrastructure using code.

Course Outcomes

By the end of the course, students will be able to:

- Implement a development environment using DevNet resources.
- Create a secure REST API.
- Compare Cisco platforms used for collaboration, infrastructure management and automation.
- Apply current technologies to deploy and secure applications and data in a cloud environment. Compare software testing and deployment methods in automation and simulation environments.

Course Contents

Topics	Hours
Course Introduction Content, The DevNet Developer Environment Content, Software Development and Design Content.	12
Understanding and using APIs, Network Fundamentals, Application Deployment and Security	14
Infrastructure and Automation Content	12
Cisco Platforms and Development Content	7
Total Hours	45

Assessment

Upon completion of course the assessment procedure was done by Multiple choice questions.

Resource Person



Mrs. Avantika Tiwari
Assistant Professor
Department of Computer Science
and Engineering, VIIT(A)
E-Mail:
avantika.tiwari92@gmail.com
Mobile No: 6398299156

Coordinator

Mrs.Ch. Sowndarya Lahari
Assistant Professor
Department of Computer Science
and Engineering, VIIT(A)
E-Mail:
sowndaryatekkali@gmail.com
Mobile No: 8978097657



Register through this link on or
before 29-07-2021

<https://forms.gle/PMDbQQ>

DckzuGPD1G8i

PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Side: VSEZ, Duvvada, Visakhapatnam-15

ABOUT THE INSTITUTION



Vignan's Institute of Information Technology (VIIT) was established in 2002 in the city of destiny, Vishakhapatnam, to cater to the educational needs of the general public. It acquired Autonomous status in the year 2017 and NBA and NAAC accredited Institute. The experience guided by Vignan's through its earlier institutions at Guntur has only helped in establishing very high-quality standards right from the inception and also is one of the reasons for the success.

Value Added Course on Competitive Programming using C


18/05/ 2021 to 12/06/2021



ORGANIZED BY

DEPARTMENT OF INFORMATION TECHNOLOGY




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VIGNAN'S INSTITUTE OF
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Beside: VSEZ, Duvvada, Visakhapatnam-49
INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)



VIGNAN'S

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

ABOUT THE DEPARTMENT

The department of Information Technology was started in the year 2002 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains qualified and experienced faculty.

COURSE OBJECTIVES

After completion of the course, students will be able

- ❖ To teach students powerful coding skills and to improve their problem-solving abilities.
- ❖ To understand and develop programs using C language.

COURSE OUTCOMES

At the end of the course the students will be able to

- ❖ Apply problem-solving techniques on real problems.
- ❖ Face the technical round of an interview with a confidence.
- ❖ Understand the control structures
- ❖ Knowledge in logical thinking

COURSE CONTENTS

Topics	Hours
Introduction to Problem Solving	15
Knowledge on control structures	15
Advanced concepts in C	10
Practice on programs using online sites like code.org, hacker earth, etc.	6
Total Hours	46

RESOURCE PERSON



Mr. M. Somasundara Rao
Associate Professor
Department of Information Technology, VIIT(A)
E-Mail: muppidisomasundararao@gmail.com
Mobile No: 9966586806

COORDINATOR

M. Somasundara Rao
Associate Professor
Department of Information Technology, VIIT(A)
E-Mail: muppidisomasundararao@gmail.com
Mobile No: 9966586806

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration Link : <https://www.google.com/search?client=firefox-b-d&q=competitive+programming+using+c>

Last date of Registration: 17/05/ 2021

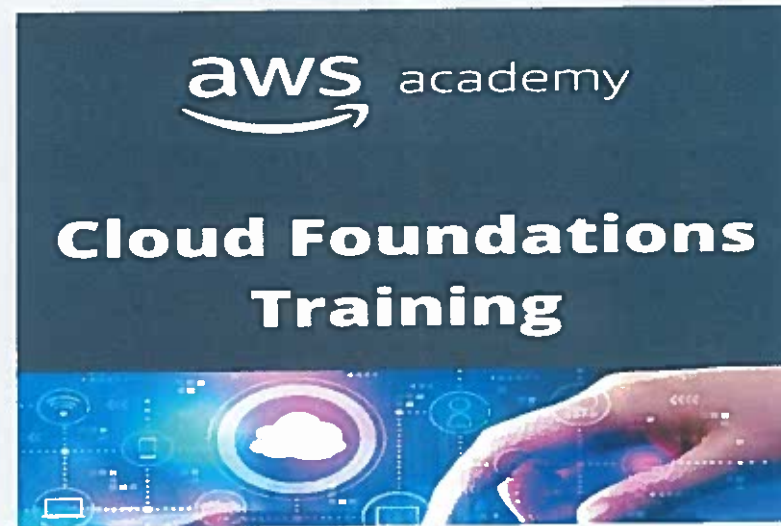
ABOUT THE INSTITUTION



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Value Added Course on AWS Cloud Foundations

8th February 2021 To 27th February 2021



ORGANIZED BY
DEPARTMENT OF INFORMATION TECHNOLOGY
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Beside: VSEZ, Duwada, Visakhapatnam-49



VIGNAN's INSTITUTE OF INFORMATION TECHNOLOGY
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ABOUT THE DEPARTMENT

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COURSE OBJECTIVES

- ❖ Identify the global infrastructure components of AWS.
- ❖ Describe security and compliance measures of the AWS Cloud including AWS identity and Access Management (IAM).
- ❖ Create an AWS Virtual Private Cloud (Amazon VPC).

COURSE OUTCOMES

At the end of the course, students will be able to achieve the following outcomes:

- ❖ Build a private cloud
- ❖ Analyze the AWS services, including compute, network, databases, and storage.
- ❖ Understand security in cloud.
- ❖ Understand the benefits of the AWS Cloud and the basics of its global infrastructure.

Assessment: The students will get the certificates after completion of his course with the minimum 50% of marks in the assessment test.

Registration Link: <https://forms.gle/4j7drNmEh2cqvbEn6>

Last date of Registration: 06/02/2021

COURSE CONTENTS

Topics	Hours
1. Cloud Concepts Overview	3
2. Cloud Economics and Billing	3
3. AWS Global Infrastructure Overview	3
4. AWS Global Infrastructure Overview	3
5. AWS Cloud Security	3
6. AWS Cloud Security	3
7. Networking and Content Delivery	3
8. Networking and Content Delivery	3
9. Compute	3
10. Compute	3
11. Storage	3
12. Storage	3
Total Hours	36

RESOURCE PERSON



Mr. K. Leela Prasad, Assistant Professor
Department of Information Technology
E-Mail: leelaprasad3@gmail.com



COORDINATOR

Mr. M. Somasundara Rao

Associate Professor
Department of Information Technology, VIIT(A)

E-Mail: muppidisomasundararao@gmail.com. **Mobile No:** 9966586806

PRINCIPAL

VIGNAN'S INSTITUTE OF
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Beside: VSEZ, Duvvada, Visakhapatnam-49

ABOUT THE INSTITUTION



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Value Added Course on **AZURE SC 900**

03.05.21 To 13.05.21



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ABOUT THE DEPARTMENT

The department of Information Technology was started in the year 2002 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence. The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains qualified and experienced faculty.

COURSE OBJECTIVES

After completion of the course, students will be able

- ❖ To teach students powerful coding skills and to improve their problem-solving abilities.
- ❖ To understand and develop programs using C language.

COURSE OUTCOMES

At the end of the course the students will be able to

- ❖ Apply problem-solving techniques on real problems.
- ❖ Face the technical round of an interview with a confidence.
- ❖ Understand the control structures
- ❖ Knowledge in logical thinking

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration Link : <https://www.google.com/search?client=firefox-b-d&q=competitive+programming+using+c>

Start date of Registration: 17/05/2021

COURSE CONTENTS

Topics	Hours
1. Introduction to SCI (Security, Compliance and Identity)	3
2. Shared Responsibility Model	3
3. Zero Trust Methodology	3
4. Defense in depth	3
5. Common threats	3
6. Encryption and hashing	3
7. Azure Active Directory	3
8. Cloud Adoption framework	3
9. Application Migration	3
10. Identity Access Management	3
Total Hours	30

RESOURCE PERSON



(Signature)
PRINCIPAL

VIGNAN'S INSTITUTE OF
Information Technology (A)
Department of Information Technology, VIIT(A)

Mr. K. V. N. Rajesh, Assistant Professor

Department of Information Technology, VIIT(A)



COORDINATOR

Mr. M. Somasundara Rao

Associate Professor

Department of Information Technology, VIIT(A)

E-Mail: muppidisomasundararao@gmail.com

Mobile No: 9966586806

ABOUT THE INSTITUTION



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Value Added Course

on

Essentials for Competitive Programming-I

June 2nd, 2021 – June 14th, 2021



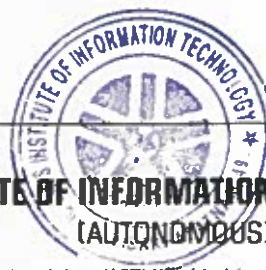
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PRINCIPAL
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Beside VSEZ, Duvvada, Visakhapatnam-49

ABOUT THE DEPARTMENT

The department of Information Technology was started in the year 2002 with the state of art infrastructural facilities right from its inception. It is continuously thriving to impart quality education and competitive spirit among students for academic excellence.

The department has made a significant progress within few years. The objective of the department is developing the logical thinking through problem solving among the students and training the students in latest technologies as per the industrial needs. The department contains efficient and eminent faculty & senior faculty mostly with B. Tech and M. Tech backgrounds.

COURSE OBJECTIVES

After completion of the course, students will be able

- 1.To improve logical and analytical skills
- 2.To improve programming patterns like recursion

COURSE OUTCOMES

At the end of the course, students will be able to achieve the following outcomes:

1. Apply bit manipulation techniques to solve problems.
2. Apply the modular programming techniques to simplify the programs.
3. Able to solve problems using strings
4. Able to solve recursive problems.

COURSE CONTENTS

Topics	Hours
BIT MANIPULATIONS	12
RECURSIONS	12
STRING MANIPULATIONS	9
Total Hours	33

RESOURCE PERSON



M. Somasundara Rao,
Associate Professor,
Department of Information Technology, VIIT (A),
Principal
VISHWANATHAN'S INSTITUTE OF
Information Technology (A)
Beside V. V. Duvvada, Visakhapatnam-49

COORDINATOR
M. Somasundara Rao
Associate Professor,
Department of Information Technology, VIIT (A).
E-Mail: muppidisomasundararao@gmail.com
Mobile: +91-9966586806

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration Link: <https://forms.gle/4j7drNmEh2cqVBE6>

Last date of Registration: 31/05/2021.

ABOUT THE INSTITUTION



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Value Added Course On PARALLEL COMPUTING

07.12.20 – 11.12.20



ORGANIZED BY

DEPARTMENT OF INFORMATION TECHNOLOGY



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ABOUT THE DEPARTMENT

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COURSE OBJECTIVES

After completion of the course, students will be able

- To make the students familiarize about the parallel computing architectures and environments.

COURSE OUTCOMES

At the end of the course the students will be able to

- Understand platforms of parallel computations, communication models and protocols.
- Understand Parallel algorithms
- Apply design models
- Build dynamic algorithms

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

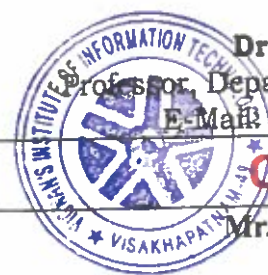
Registration link: <https://forms.gle/4j7drKmHh2cqVBEn8>

Last date of Registration: 05/12/2020.

COURSE CONTENTS

Topics	Hours
1. Introduction to Parallel Computing, Elements and Applications of Parallel Computer Platforms of parallel computations Communication Models, Protocols	6
2. Network Topologies, Introduction to Parallel Algorithms- Decomposing a Parallel Algorithm, Processes and Mapping, Decomposing Techniques	6
3. Characteristics of Tasks, Characteristics of Interactions, Mapping Techniques for Load Balancing- Static Mapping	6
4. Mapping Techniques for Load Balancing- Dynamic Mapping, Methods for Minimizing Interaction Overheads - Maximizing Data Locality, Minimizing Contention and Hot-Spots, Overlapping Communication and Computations	6
5. Parallel Algorithm Design Models - Data-Parallel, Work-Pool, Parallel Algorithm Design Models - Task Graph, Master-Slave, Pipeline, and Hybrid Models	6
Total Hours	30

RESOURCE PERSON



Dr. G. Rajendra Kumar

Professor, Department of Information Technology
E-Mail: rajendragk@rediffmail.com

COORDINATOR

Mr. M. Somasundara Rao

Associate Professor

Department of Information Technology, VIIT(A)

E-Mail: muppidisomasundararao@gmail.com

Mobile No: 9966586806

ABOUT THE INSTITUTION



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Value Added Course on AWS Cloud Computing

29th Mar 2021 to 03rd April 2021



ORGANIZED BY

DEPARTMENT OF
ELECTRONICS AND COMPUTER ENGINEERING



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INSTITUTE OF INFORMATION TECHNOLOGY

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(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada) Beside: VSEZ, Duwada, Visakhapatnam-49
Beside VSEZ, Duwada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

ABOUT THE DEPARTMENT

The Department of Electronics and Computer Engineering (ECM) aims to integrate two separate engineering fields to meet the joint demands made by the electronics and computer industries in today's world. This Programme combines coursework in different aspects of both fields over four years, with an emphasis on the design of computing systems. Electronics and computers, and their joint applications, are playing an ever-increasing role in our lives as Information Communications Technology (ICT), with everything from consumer goods to space shuttles using electronic hardware (circuits) and computer software integrated together. The increased use of ICT in every aspect of our lives ensures the continued relevance of this a Department of ECM has the expert faculty from both electronics background and Computer Science background. Students can avail the expert knowledge in electronics as well as Computer Science.

COURSE OBJECTIVES

After completion of the course, students will be able:

- To learn and understand basics and working definitions of AWS.
- To describe and provide an example of the core AWS services, including compute, network, database, and storage services.

COURSE OUTCOMES

At the end of the course the students will be able to

- Efficient design and deployment of the AWS system.
- Cost-evaluation and cost-control mechanisms.
- Elastic Load Balancing on multiple EC2 instances.
- Data ingress and egress on AWS.

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

COURSE CONTENTS

Topics	Hours
Introduction to AWS Cloud Computing, AWS Compute Services - EC2, ECS	6
AWS Storage Services – Amazon Simple Storage Services (S3), Amazon Elastic Block Store (EBS) and Amazon Glacier	6
AWS Networking Services	6
AWS Security and Identity Services, AWS Database Services	7
AWS Management and Monitoring Services, AWS DevOps and Deployment Services	7
Total Hours	32

RESOURCE PERSON



Dr. N. Tirupati Rao,

Associate Professor, Department of CSE

COORDINATOR

Dr. Hemanth Kumar Sahu,

Assistant Professor,
Department of Electronics and Communication Engineering
Mobile: 9853568787

Registration link: <https://forms.gle/DTX1KmVNFeeUgTLX8>
Last date of Registration: 38/03/2021

Beside: VSEZ, Duvvada, Visakhapatnam-49

ABOUT THE INSTITUTION



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Value Added Course on Internet of Things

20th Nov 2020 to 27th Nov 2020



ORGANIZED BY

DEPARTMENT OF
ELECTRONICS AND COMPUTER ENGINEERING



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INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside VSEZ, Duvvada, Visakhapatnam-49

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The Department of Electronics and Computer Engineering (ECM) aims to integrate two separate engineering fields to meet the joint demands made by the electronics and computer industries in today's world. This Programme combines coursework in different aspects of both fields over four years, with an emphasis on the design of computing systems. The increased use of ICT in every aspect of our lives ensures the continued relevance of this a Department of ECM has the expert faculty from both electronics background and computer Science background. Students can avail the expert knowledge in electronics as well as Computer Science.

COURSE OBJECTIVES

After completion of the course, students will be able:

- To introduce the fundamentals of the internet, and the principles of network devices.
- To construct basic internet device to design a hard ware devices.
- To learn internet of things to become a software and hardware developer.
- To develop project through internet devices where the devices are connected that can be operated through any mobile application.

COURSE OUTCOMES

At the end of the course the students will be able to

- Understand where to start when taking on a internet of things project
- Understand conceptual internet of things is used for develop the hardware application.
- Have knowledge about the basic structure and limitations of different application of IOT.
- Do basic connection, create, manage, store data on internet and create application on IOT.

COURSE CONTENTS

Topics	Hours
Introduction to Internet of Things	6
Sensors and Actuators	6
IOT Networking, Internet of Things Securities and Protocols	6
IOT Data Analytics	6
IOT Business Models	6
IOT Development Boards - Arduino uno -Arduino, Node MCU, Raspberry pi	6
Applications: IoT - Medical Record Management system	6
Total Hours	42

RESOURCE PERSON



Mr. Bapuji Kanaparthi CEO & Founder of Appleton Innovations, Visakhapatnam.

COORDINATOR

Mr. D. Madhusudan, Assistant Professor,
Department of Electronics and Communication Engineering
Mobile: 9491442960 Side: VSEZ, Duvvada, Visakhapatnam-49
Email Id: madhusudan.d@gmail.com

Assessment: The students are entitled to receive the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link : <https://forms.gle/mELxkJXPkVzM6>

Last date for registration : 19.11.2020

About the Institute



Vignan's Institute of Information Technology (Autonomous) goal is to be a recognized leader in technical education to be a competent and socially conscious technical workforce for industry needs and national growth. Provide top-tier education and research opportunities in the cut-edge fields of engineering and technology, with a strong emphasis on skills, leadership, and creativity. Students get the opportunity to meet industry professionals through guest lectures, visits to enterprises, internships, sports, cultural, and other extracurricular activities, and guest speakers. VIIT has a best track record of placements in recent years, and students have established their mettle in industry, academics, and administration. A well-ventilated green campus, well-ventilated classrooms, a state-of-the-art computer centre, a digital library, and a peaceful environment contribute to a pleasant learning experience.

Value Added Course

On

Self Management Skills

03rd Feb 2021 to 24th March 2021



Organized

By PRINCIPAL

VIGNAN'S INSTITUTE Of

Department of Management Studies

Technology (A)
Beside: VSEZ, Duvvada, Visakhapatnam-49



VIGNAN'S

INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakunada)
Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049

About the Department

The institution started offering MBA course from 2006-07, the three aims of the institute are - To enable students to tap their innate potential to bloom into business leaders. To equip the students with skills required to develop themselves into managers and to provide the impetus to reach the higher echelons of the organization and to offer a wide spectrum of business knowledge, conceptual and analytical skills to develop the students into competent and effective managers. the course lays emphasis on innovative pedagogy which include industry internships, live projects. Business games. Case studies, interaction with experts seminars etc.

Course Description and Objectives

To acquaint students with

- Identifying Self-Management skills and personal attributes commonly required by professional's.
- Interpret the Self-Management skills or qualities student need to develop
- Understand skills required for career growth
- Describe one's development needs in relation employment

Course Outcomes

At the end of the course the students will able to

- Understand the concepts of Self- Management skills.
- Measure different types of Self- Management skills specific for working environment.
- Analyze the required Self-Management skills needed for better improvement
- Apply the basic skills to perform and to control in all business activities

Course Content

Topics	Hours
Creating Best out of Waste – I	4
Creating Best out of Waste - II	4
Make your own story	4
Self – Introduction	4
Career Development conclave	4
News Hunt	4
Logo Making	4
Pictionary	4
Total Hours	32

Resource person



Mrs Auadhathi Datta
Assistant Professor, Vignan's Institute of Information Technology,
Visakhapatnam, Andhra Pradesh, India. 53001

Program Venue: Seminar Hall

For registration: <https://forms.gle/OK8mZ9kRPCom1vNc8>

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.



Coordinator
VIGNAN'S INSTITUTE OF
Information Technology (A)

Dr. T Archana Acharya
Associate Professor,
Department of Management Studies
Mobile: 8500258685
Email Id: drtaa@vignaniit.edu.in

About the Institute



Vignan's Institute of Information Technology (Autonomous) goal is to be a recognized leader in technical education to be a competent and socially conscious technical workforce for industry needs and national growth. Provide top-tier education and research opportunities in the fields of engineering and technology, with a strong emphasis on skills, leadership, and creativity. Students get the opportunity to meet industry professionals through guest lectures, visits to enterprises, internships, sports, cultural, and other extracurricular activities, and guest speakers. VIIT has a best track record of placements in recent years, and students have established their mettle in industry, academics, and administration. A well-ventilated green campus, well-ventilated classrooms, a state-of-the-art computer centre, a digital library, and a peaceful environment contribute to a pleasant learning experience.

Value Added Course

On

Digital Marketing

From Sept 22nd 2020 to Nov 30th 2020



VIGNAN'S

Organized

By **PRINCIPAL**
VIGNAN'S INSTITUTE OF
Department of Management Studies
INSTITUTE OF INFORMATION TECHNOLOGY (A)
(AUTONOMOUS)

Beside: VSEZ, Duwada, Visakhapatnam-49
(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kaknada)
Beside VSEZ, Duwada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

About the Department

The institution started offering MBA course from 2006-07, the three aims of the institute are - To enable students to tap their innate potential to bloom into business leaders. To equip the students with skills required to develop themselves into managers and to provide the impetus to reach the higher echelons of the organization and to offer a wide spectrum of business knowledge, conceptual and analytical skills to develop the students into competent and effective managers. the course lays emphasis on innovative pedagogy which include industry internships, live projects, Business games. Case studies, interaction with experts seminars etc.

Course Description and Objectives

To acquaint students with

- Exploring the emerging tools offered by the internet.
- Access the realm of social media
- Understand and estimate the mindset of the online consumer

Course Outcomes

At the end of the course the students will be able to

- Understand the concepts of Digital marketing
- Understand the process of Developing websites
- How to optimize search engine

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Course Content

Topics	Hours
Digital marketing introduction	8
Search engine optimization	8
Off-page optimization	8
Social media optimization & marketing	8
Search engine marketing	8
Blog marketing	8
Affiliate marketing	8
Online marketing	8
Total Hours	64

Resource person



Mr K Aditya
Trainer, MSME

Program Venue: (Online) meet.google.com/ajm-seux-gjq

Registration: <https://forms.gle/QK8mZ9kRPGom1vNc8>



Coordinator

PRINCIPAL

Dr. T Archana Acharya

Associate Professor,

Department of Management Studies

Mobile: 8500258685

Email Id: drtaa@vignaniit.edu.in

Last date of Registration: 21/09/2020

ABOUT THE INSTITUTION



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Value Added Course on COMPETITIVE CODING

03/5/2021 to 13/5/2021



ORGANIZED BY

DEPARTMENT OF
MASTER OF COMPUTER APPLICATIONS



VIGNAN's

INSTITUTE OF INFORMATION TECHNOLOGY

(AUTONOMOUS)

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VIGNAN'S INSTITUTE of
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The department of MCA at Vignan's IIT has been active in teaching and research since its inception in 2006. Currently, about 8 committed faculty members are working in the department. The department of MCA offers two years post graduate programme in Master of Computer Applications. VIIT's goal is to become a world class engineering institute in a multi-campus setting. It is one of the best institutions in the state. In respect that, the department of MCA provides a better guidance to all students with practical knowledge and skills. This is an important aspect for the current requirement, under the new concept of outcome based education. Here the students are trained to work as a team and strive for excellence. The course will not only groom the students to become world class engineering graduates, but will also nurture their sense of purpose and vision.

COURSE OBJECTIVES

After completion of the course, students will be able

- The students will learn to select appropriate algorithms for a given problem.

COURSE OUTCOMES

At the end of the course the students will be able to

1	The students will learn to select appropriate algorithms for a given problem
2	Able to know the design new algorithms
3	They will also learn skills required for participation in programming contests
4	They will represent Carnegie Mellon at the regional ACM Programming Competition

Last Date for Registration: 01.05.2021

S. No.	Topics	No. of Hours
1	Numbers Coding	3
2	Recursion for DSA	3
3	Dynamic Programming	3
4	Analysis and Intuition behind search algorithms	3
5	Balanced Parenthesis Problem	3
6	Advance in Numbers	3
7	Lists and Tuples	3
8	Different types of tree	3
9	Dictionaries and Sets	3
10	Analysis of Algorithm	3
	Total Hours	30

RESOURCE PERSON



Mr. M. Somasundara Rao Associate Professor
Department of IT, VIIT(A)
E-Mail: muppidisomasundararao@gmail.com

COORDINATOR



Dr. A. Sirisha, Assistant Professor
Department of MCA, VIIT(A)
Phone: 9059498690
Email: aswadhay.sirisha@gmail.com
Beside: VSEZ, Duvvada, Visakhapatnam-49

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/khLXxiW6znDGVVx28>

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Value Added Course on Digital Forensic Science

15.05.21 – 21.05.21



ORGANIZED BY

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS



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INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

3/20
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COURSE OBJECTIVES

After completion of the course, students will be able

1. Understand the fundamental of forensics.
2. Study different aspects of digital evidences.

COURSE OUTCOMES

At the end of the course the students will be able to

1	Develop computer forensic awareness
2	Perform best practices for incidence response.
3	Apply computer forensic tools for investigation
4	Understand the cloud forensic

COURSE CONTENTS

S. No.	Topics	No. of Hours
1	Digital evidence controls	15
2	Network Forensic	10
3	Cloud Forensic	5
	Total Hours	30

RESOURCE PERSON



Mrs. K. G. Prasanthi
Assistant Professor
Department of MCA, VIIT(A)
E-Mail: prasanthikalavala@gmail.com
Mobile No: 8885011584

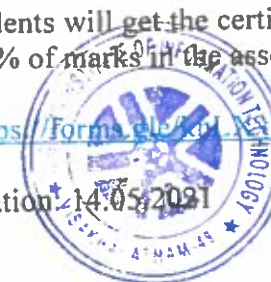
COORDINATOR

Mrs. A. Sirisha, Assistant Professor
Department of MCA, VIIT(A)
Phone: 9059498693
Email: aswadhati.sirisha@gmail.com

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/14752021>

Last Date for Registration: 14.05.2021



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Value Added Course on PARALLEL COMPUTING

07.12.20 – 17.12.20



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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS



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COURSE OBJECTIVES

After completion of the course, students will be able to

- To improve logical and analytical skills
- To improve modular programming techniques using sub arrays

COURSE OUTCOMES

At the end of the course the students will be able to

- 1 Understand platforms of parallel computations, communication models and protocols.
- 2 Understand Parallel algorithms
- 3 Apply design models
- 4 Build dynamic algorithms

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration Link: <https://forms.gle/4j7drKmHh2cqvbEn8>.

COURSE CONTENTS

S. No.	Topics	Hours
1	Introduction to Parallel Computing, Elements and Applications of Parallel Computer Platforms of parallel computations Communication Models, Protocols	6
2	Network Topologies, Introduction to Parallel Algorithms- Decomposing a Parallel Algorithm, Processes and Mapping, Decomposing Techniques	6
3	Characteristics of Tasks, Characteristics of Interactions, Mapping Techniques for Load Balancing- Static Mapping	6
4	Mapping Techniques for Load Balancing- Dynamic Mapping, Methods for Minimizing Interaction Overheads - Maximizing Data Locality, Minimizing Contention and Hot-Spots, Overlapping Communication and Computations	6
5	Parallel Algorithm Design Models - Data-Parallel, Work-Pool, Parallel Algorithm Design Models - Task Graph, Master-Slave, Pipeline, and Hybrid Models	6
Total Hours		30

RESOURCE PERSON



Dr. Rajendra Kumar, Professor
Department of Information Technology
E-Mail: rajendragk@rediffmail.com
Mobile No: 9393110278
COORDINATOR

Mrs. A. Sirisha

Assistant Professor

Department of MCA, VIIT(A)

E-Mail: aswadhiti.sirisha@gmail.com

Mobile No: 9581616972

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Value Added Course on Waste to Wealth

21st January 2021 to 22nd February 2021



ORGANIZED BY

Department of Basic Science and Humanities



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ABOUT THE DEPARTMENT

Department of Basic Science and Humanities is recognized as one of the ten departments in the institutions. It is a combination of multiple subjects and streams like Chemistry, Physics, Mathematics, Environmental Science and English.

It oversees the academic activities of I B.Tech and bridges the gap between intermediate and Engineering courses. The department has the privilege to transform the students who are from diverse backgrounds into better individuals to cope with the global requirements.

COURSE OBJECTIVES

- To introduce students to the Scientific processing of waste to the fore front.
- To develop a zero landfill and zero waste nation.
- To strengthen a common platform for the students to seek relevant solutions.

COURSE OUTCOMES

At the end of the course the students will be able to

- Discuss issues related to recycling & resource recovery from wastes
- Develop small management plans for plastic waste
- Recover bio fuels from wastes and bio mass
- Identify which waste is causing severe pollution and which waste recycle and which waste to be reduced

COURSE CONTENTS

Topic	Hours
Solid Waste, Minimizing options, Energy from Waste	10
Plastic waste, Industrial Waste, Technologies in waste management	10
Mechanical treatment, Biological treatment, thermal treatment, sources of water	10
Total Hours	30

RESOURCE PERSON



Dr. A. Annapoorna, Associate Professor
Andhra University, Visakhapatnam.

COORDINATOR

Ms. A. Ramya, Assistant Professor
Department of Basic Science and Humanities
Mobile: 7382471542

Email Id: ramyasrinivas937@gmail.com

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/F7x84c5JuVro3tfeA>

Last date of Registration: 20/01/2021

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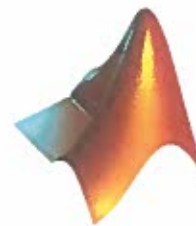
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Value Added Course on MATLAB FOR BEGINNERS

2/2/2021-3/3/2021



MATLAB
for
Beginners

ORGANIZED BY

**DEPARTMENT OF
BASIC SCIENCE AND HUMANITIES**

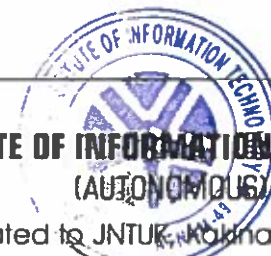


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PRINCIPAL
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B. J. Je: VSEZ, Duwada, Visakhapatnam-49

ABOUT THE DEPARTMENT

Department of basic sciences and humanities is recognized as one of the departments in the institution. It is a combination of multiple subjects and streams like Physics, Mathematics, Chemistry, Environmental studies and English. It oversees the academic activities of I-B. Tech and bridges the gap between intermediate and engineering courses.

The department has a privilege, to transform the students, who are from diverse backgrounds into better individuals to cope with the global requirements.

COURSE OBJECTIVES

- To apply programming skills to resolve real world problems.
- To develop algorithms and programmes using logical skills.

COURSE OUTCOMES

At the end of the course the students will give awareness on

- Describes how algorithm can be developed.
- Explain the logic of the Programme and understands various steps of Programme execution.
- Identify syntax errors and correction.
- Understands how to access library functions for solving real world problems.

COURSE CONTENTS

Topics	Hours
Basics of MATLAB	10
Input and output, File types	10
Script files and creating function file	13
Total Hours	33

RESOURCE PERSON



Mr. S. Ravi Kumar

Department of Basic Science and Humanities, VIIT (A).

COORDINATOR

MR. K. RAMAPPADU

Assistant Professor

Department of Basic Sciences and Humanities, VIIT (A)

Email: k.ramappadu@gmail.com

Mobile: 98919859539

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/K1b3RwMn8BnpAvfs9>

Last date of Registration: 25-1-2021



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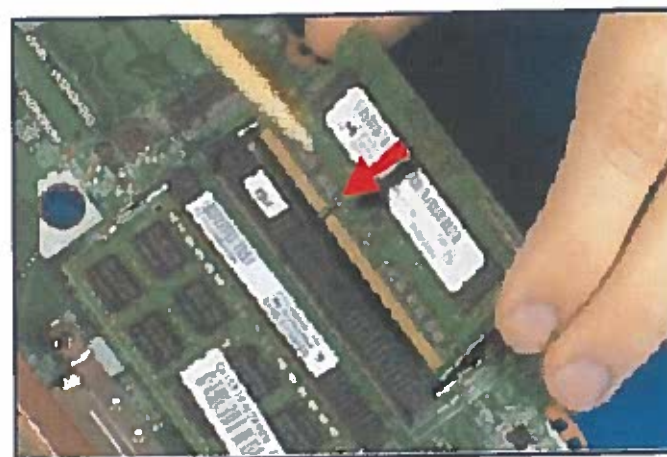


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Value Added Course on Inferential Statistics

1st April 2021 to 2nd May 2021



ORGANIZED BY

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES



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COURSE OBJECTIVES

- To impart statistical analysis in various applications of engineering.
- Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases. Understand the concept of p-values.

COURSE OUTCOMES

At the end of the course the students will give awareness on

- Acquire techniques to test hypothesis with an assumption on the population means, proportions and variances under different circumstances.
- Hypothesize various advanced statistical techniques for modeling and exploring practical situations.

COURSE CONTENTS

Topics	Hours
Introduction to Hypothesis, Types of Error, Sampling Distribution, Estimation	06
Z-Test for Means, Z-test for Proportions	08
t-test for Means, F-test for Variances	08
Chi-Square Test for Attributes, Chi-Square Test for Goodness of Fit.	08
Total Hours	30

RESOURCE PERSON



Mrs. S. Indira, Assistant Professor
Department of Basic Science and Humanities, VIIT (A).



COORDINATOR
DR. N. RAMYA, Associate Professor
Department of Basic Sciences and Humanities
Mobile: 9441920282, 9296956707
Email: ramya.nemani@gmail.com

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/3kHEzirppD7KUfwUA>

Last date of Registration: 31/03/2021

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Value Added Course on CREATIVE WRITING

18/08/2021 to 03/09/2021



ORGANIZED BY

PRINCIPAL
VIGNAN'S INSTITUTE OF
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VSEZ, Duwada, Visakhapatnam

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES



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COURSE OBJECTIVES

- To develop the overall English proficiency of students using the creative writing method
- To help them become avid readers of available texts, that will increase their writing capability
- To make them well acquainted with strategies of self-expression and reflection of thought.

COURSE OUTCOMES

At the end of the course the students will be able

- To understand the fundamentals of creative writing, such as the appropriate usage of figures of speech in creative writing.
- To enhance their craft of writing by focusing on contemporary cultural and social contexts.
- To write effectively on a broad range of areas such as poetry, drama and fiction.
- To understand the fundamentals of creative writing such as appropriate usage of figures of speech in creative writing.

COURSE CONTENTS

Topics	Hours
Understanding Creative Writing	3
Art and Craft of Writing	1
Critical and Creative Thinking	1
Forms of Literature	1
Figures of Speech	1
Narrative Writing	8
Rhetoric	3
Short story Writing	4
Writing for Media	5
Understanding Writers Block	3
Total Hours	30

RESOURCE PERSON



Mr. D. Ganesh, Assistant Professor
Department of Basic Sciences and Humanities VIIT(A)

E-Mail: ganeshdviit@gmail.com

Mobile No.: 8919686052

COORDINATOR

Ms. Kuntalika Jharimune, Assistant Professor

Department of Basic Sciences and Humanities VIIT(A)

E-Mail: kuntalika.jharimune@gmail.com, Mobile No. 9476317451

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/w5jCbqyKDK2XLape7>

Last date of Registration: 17/08/2021

ABOUT THE INSTITUTION

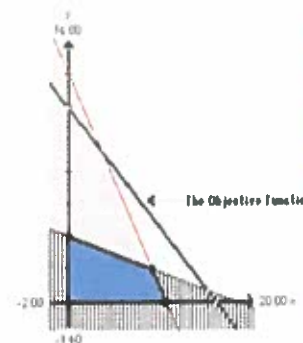


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Value Added Course on

Optimization Techniques

15th September 2021 to 7th October 2021



ORGANIZED BY

DEPARTMENT OF BASIC SCIENCE AND HUMANITIES



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COURSE OBJECTIVES

- To get familiarize with the mathematical formulation of a real world problem.
- To acquaint with the problem solving techniques theoretically as well as graphically.
- Realize the Importance of certain mathematical techniques in getting the minimum transportation cost.
- Assign the jobs to the machines at the minimum cost (or maximum profit).

COURSE OUTCOMES

By the end of the course, students will be able to:

- Formulate a given simplified description of a suitable real-world problem as a linear programming model
- Solve the transportation problem, and assignment problems to drive their optimal solution.

COURSE CONTENTS

Topics	Hours
Linear Programming Formation of mathematical modeling, Graphical method, Forms of LPP	5
Interpretation of Significance of all Elements in the Simplex Table, Artificial variable techniques: Big M method, Two phase method.	8
Definition and application of the transportation model, Solution of the transportation problem	4
North-West corner method, Least cost method, Vogel's Approximation method	7
Assignment Problem: Introduction, Mathematical Formulation of the Problem, Hungarian Assignment Method, Special Cases in Assignment Problems.	6
Total Hours	30

RESOURCE PERSON



Dr. N. Ramya, Associate Professor
Department of Basic Sciences and Humanities, VIIT (A)
Principal, Vignans Institute of Information Technology (A)
Vignans Institute of Information Technology (A)
Vignans Institute of Information Technology (A)

COURSE COORDINATOR

Mrs. S. Indira, Assistant Professor
Department Of Basic Sciences and Humanities
Mobile: 9296956707, Email: indira.singuluri@gmail.com

Assessment: The students will get the certificates after completion of this course with the minimum 50% of marks in the assessment test.

Registration link : <https://forms.gle/45P5dmEQk5VvBFR18>

Last date of Registration: 11/09/2021

ABOUT THE INSTITUTION:



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Value Added Course on Chemistry in Everyday Life

14th September 2021 to 11th October 2021



ORGANIZED BY

DEPARTMENT OF BASICS SCIENCES
AND
HUMANITIES



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Beside VSEZ, Duvvada, Vadlapudi Post, Gajuwaka, Visakhapatnam - 530 049.

ABOUT THE DEPARTMENT

Department of basic sciences and humanities is recognized as one of the ten departments in the institution. It is a combination of multiple subjects and streams like physics, mathematics, chemistry, environmental studies and English. It oversees the academic activities of I-B.Tech and bridges the gap between intermediate and engineering courses.

The department has a privilege, to transform the students, who are from diverse background into better individuals to cope with the global requirements

COURSE OBJECTIVES

- To impart knowledge on objects made of different chemicals used in everyday life.
- To educate about the preservatives used in foods.
- To educate about the artificial sweetening agents used in food stuffs and their drawbacks.
- To discuss about the chemicals used in baking processes.

COURSE OUTCOMES

At the end of the course the students will give awareness on

- To visualize the importance of chemistry in everyday life.
- Explain the chemical composition of human body.
- Understanding the discoloration of leaves.
- Different chemicals which are health hazardous.

COURSE CONTENTS

Topics	Hours
Discoloration of leaves and human body composition	10
Chemistry in baking and food preservatives	10
Chemistry indigestion	5
Course wrap up	5
Total Hours	30

RESOURCE PERSON



Ms. A. RAMYA, Assistant professor,

COURSE COORDINATOR
Principal, Vignana Institute of Information Technology (A)

Ms. B. Vana Lakshmi, Assistant Professor
Department of Basic Sciences and Humanities

Mobile: 9030605201, 7674880889

Email: ramyasrinivas937@gmail.com

Assessment: The students will get the certificates after Completion of this course with the minimum 50% of marks in the assessment test.

Registration link: <https://forms.gle/F7x84c5JuVro3tfeA>

last date of Registration: 10/09/2021

A large, modern, multi-story building with a central blue section and many arched windows, likely a school or university building. The building is white with blue accents and features a central entrance. The windows are arched and arranged in a grid pattern. The building is surrounded by a green lawn and some trees.

Value Added Course on English for Professional Purposes

DEPARTMENT OF BASIC SCIENCE

PRINCIPAL
VIGNAN'S INSTITUTE OF
Information Technology (AI)
E. 1001, 7, Duwada, Visakhapatnam-48



VIGNAN'S

INSTITUTE OF INFORMATION TECHNOLOGY
(AUTONOMOUS)

(Approved by AICTE - New Delhi & Affiliated to JNTUK, Kakinada)

91

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COURSE OBJECTIVES

- To introduce students to the specific use of English for Technical Communication.
- To develop the overall English proficiency of students and enable them to function effectively in different professional contexts.
- To strengthen student skills in the areas of reading, writing, listening and speaking and enable them to function effectively in their professional sphere too

COURSE OUTCOMES

- At the end of the course the students will be able to
- Analyze the functions of Language and Grammar in Spoken and Written forms.
 - Speak effectively on various domains.
 - Prepare and exhibit Oral Presentation Skills by using ICT ((Individual/Team).

COURSE CONTENTS

Topic	Hours
Speak out	3
Group Discussion	3
Listening to an audio and answer the questions (Mobile Aided Language Learning)	3
Write a Press note for an event	3
Interpersonal skills	3
Situational Dialogues	3
Generating ideas for Extempore	3
Vocabulary	3
Paragraph Reading	3
Effective Interview Strategies	3
Total Hours	30

RESOURCE PERSON



Dr. K. G. B. Santhosh Kumari, Associate Professor
Department of Basic Science & Humanities
VIIT(A)

COORDINATOR

Mr. K. Ramappadu, Assistant Professor
Department of Basic Science and Humanities
Mobile: 9494587021, Email: k.ramappadu@gmail.com

Assessment: The students will get the certificates after completion of this Course with the minimum 50% of marks in the Assessment test.

Registration link: <https://forms.gle/K7x84c5JvVro3tfeB>

Last date of Registration: 19/09/2021.

PRINCIPAL

VIGNAN'S INSTITUTE OF
Information Technology (A)
Beside: VSEZ, Duvvada, Visakhapatnam-49