



## AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi, & Permanently Affiliated to J.N.T.U.K., Kakinada)

NAAC B++ Accredited Institute

Cherukupally (Village), Near Tagarapuvalasa Bridge, Bhogapuram (Mandal), Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

**2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.**

S.No	Description	Activities	Page No.
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**2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.**

**Response:**

The teaching-learning process is one major objective and the strength of our college. Students are given a right blend of traditional and modern methods to make learning student-centric and a rewarding experience. Experiential learning, participative learning and problem solving methodologies are well adopted to ensure the holistic development of students and facilitate life-long learning and knowledge management.

**a) Experimental Learning**

1. Practical courses (laboratory) including Add on experiments are made compulsory in the offline mode class activities.
2. The inclusion of Internship is develops good practices and innovative methods of learning, The traditional lecture and laboratory activities have evolved into more open ended, Internship-based experiences that help students develop additional skills and contextualize the learning of theories.
3. Each student has to do a Project as part of the curriculum where the student can choose a domain of their interest and implement their innovation. The students are motivated to do industry and research oriented projects.
4. Content beyond the experiments are assigned to the student to fill the gap between curriculum and industry requirements.

**Experimental Learning**

- Virtual Lab
- Academic Projects



## VIRTUAL LABS

### DEPARTMENT OF CIVIL ENGINEERING

### CONCRETE TECHNOLOGY LAB

ACADEMIC YEAR: 2020-2021

YEAR-III/II

DATE: - 03-02-2021

LINK: -COMPRESSIVE STRENGTH OF A CUBE  
(<https://cs-iitd.vlabs.ac.in/exp/cube-test/>)

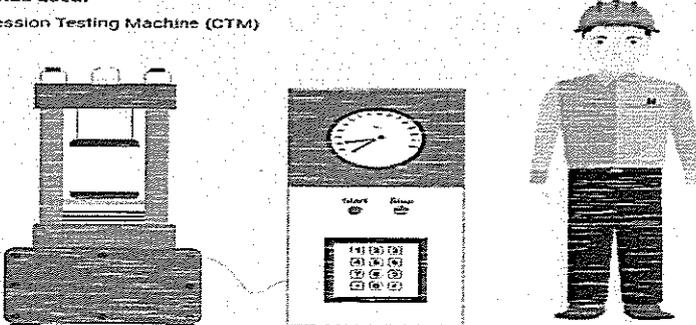
#### Screen shot-1

#### Compressive Strength Test of Concrete (Cube)

**STEP 1**

**Objective:**  
To determine the compressive strength of hardened concrete as per IS:516.

**Apparatus used:**  
Compression Testing Machine (CTM)



**Specimen type:**  
Cube

**Start Here**

#### Screen shot-2

#### Compressive Strength Test of Concrete (Cube)

**STEP 2** Provide Specimen Details

Enter the date of casting of specimens:  Days

Select the size of cube specimens:  cm

**Submit**



## TENSILE TEST

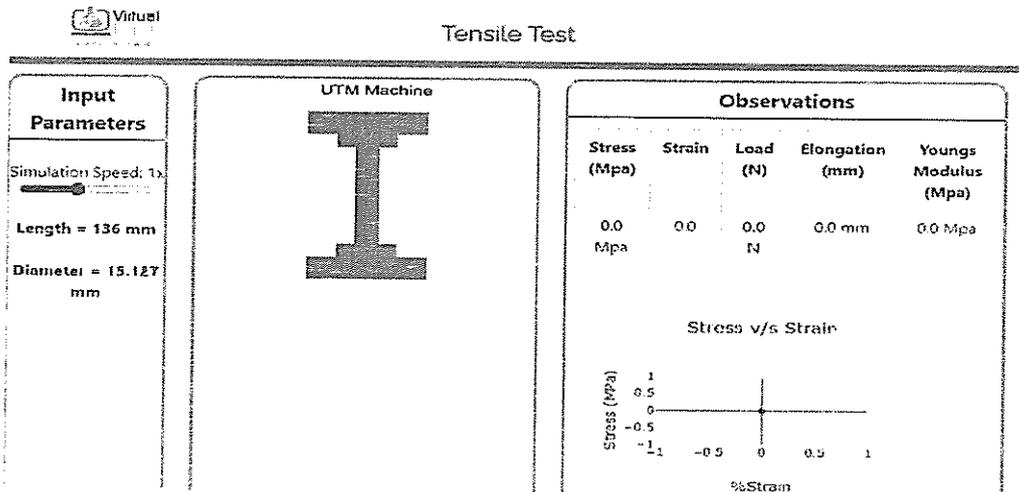
ACADEMIC YEAR: 2020-2021

YEAR-II/I

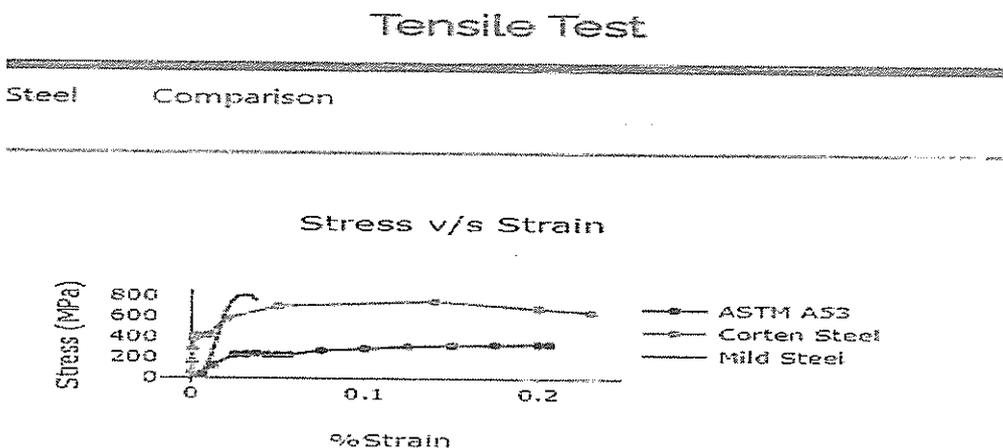
DATE: - 10-11-2020

LINK: - <https://eerc01-iiith.vlabs.ac.in/exp/tensile-test-experiment/simulation.html>

### Screen shot-1



### Screen shot-2





## ENVIRONMENTAL ENGINEERING - I

ACADEMIC YEAR: 2020-2021

YEAR-IV/I

DATE: - 21-12-2020

LINK: - <https://ee1-nitk.vlabs.ac.in/exp/determination-of-ts/simulation.html>

### Screen shot-1



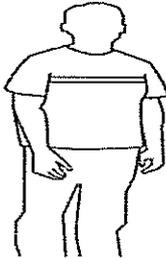
#### Determination of TS, TDS and TSS in Water

##### **Objective:**

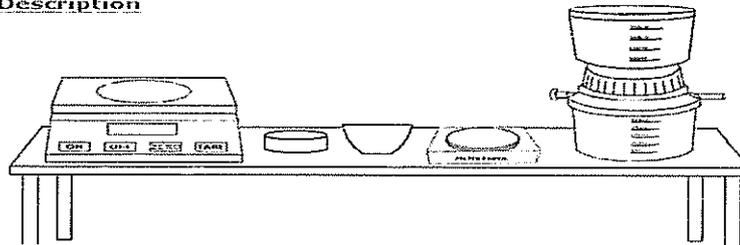
To determine Total Solids (TS), Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Volatile Suspended Solids and Fixed Suspended Solids in the given water sample.

##### **Apparatus used:**

Weighing scale, Petri dish, Ashless filter papers, Membrane filter holder, Crucible, Oven, Vacuum pump, Beaker, Desiccator, Pipette etc.



##### Description



### Screen shot-2



#### Determination of TS, TDS and TSS in Water





## VENTURIMETER

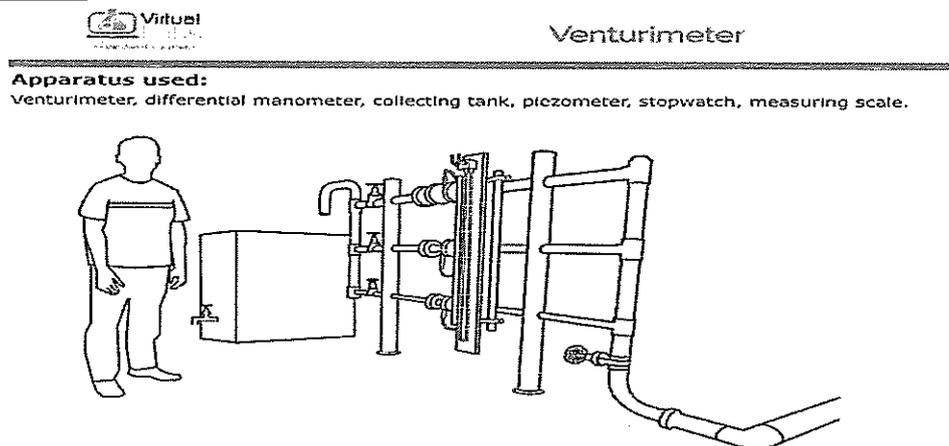
ACADEMIC YEAR: 2020-2021

YEAR-II/II

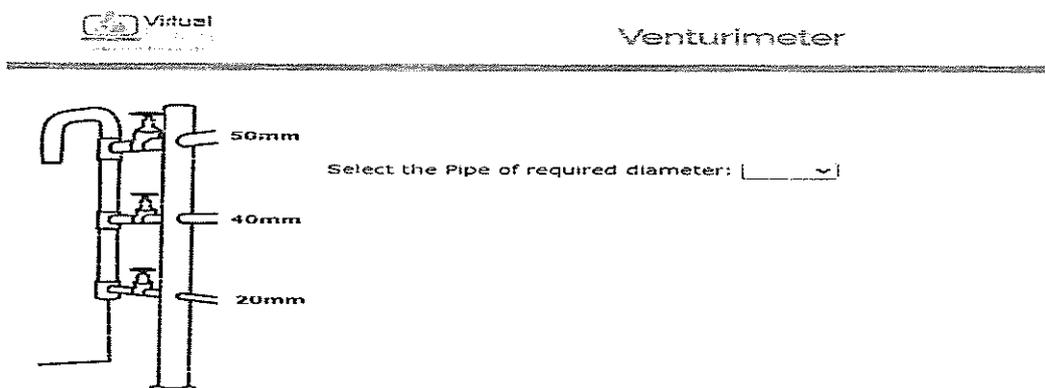
DATE: - 12-04-2021

LINK: - <http://vlabs.iitkgp.ac.in/rtylas/exp3/index.html#>

### Screen shot-1



### Screen Shot-2



*P. Venkatesh*  
HOD-CIV



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**EM-I LAB**

ACADEMIC YEAR : 2020-2021      YEAR-III/II      DATE:-14-04-2021  
 LINK: <https://em-coep.vlabs.ac.in/exp/load-test-dc-motor/procedure.html>

**Screen shot-1**

The screenshot shows a web-based virtual lab interface. At the top, there is a navigation menu with 'HOME', 'PARTNERS', and 'CONTACT'. Below the menu, the page title is 'Load Test On Separately Excited DC Motor'. The interface is divided into several sections: 'Aim', 'Theory', 'Pretest', 'Procedure', 'Simulation', 'Posttest', 'References', and 'Feedback'. The 'Procedure' section contains a list of steps: 1. Close the DPST (Double Pole Single Throw) switch connecting supply to field winding of the Separately Excited DC motor; 2. Increase the Separately Excited DC motor field voltage to rated value (220V); 3. Use variable voltage device to increase or decrease the supply; 4. Close the DPST switch connecting supply to armature winding of the Separately Excited DC motor; 5. Increase the motor armature voltage to rated value (220V); 6. As Separately Excited DC motor is connected mechanically to Separately Excited DC generator. So both machines rotate with same speed. Therefore we can observe speed of generator in digital tachometer. A diagram of a DPST switch is shown with labels 'i/p' and 'o/p', and arrows indicating 'to increase' and 'to decrease' the supply voltage. The 'Feedback' section contains step 7: 'Now increase the excitation of separately excited generator such that o/p of generator will be equal to rated value(220V)'. Step 8: 'Now connect the load by closing the switch as shown in the figure'. A diagram of a load resistor is shown with a switch and a 'Main' terminal. Step 9: 'Note the decrease in voltage of generator and increase in current of generator. As the load goes on increasing speed and armature voltage of the generator decreases'.

**Screen shot-2**

The screenshot shows the virtual lab interface for step 7 and 8. Step 7: 'Now increase the excitation of separately excited generator such that o/p of generator will be equal to rated value(220V)'. A diagram shows a digital tachometer displaying '1424 rpm'. Step 8: 'Now connect the load by closing the switch as shown in the figure'. A diagram shows a load resistor connected to a switch and a 'Main' terminal. Step 9: 'Note the decrease in voltage of generator and increase in current of generator. As the load goes on increasing speed and armature voltage of the generator decreases'.





### EM-II LAB

ACADEMIC YEAR : 2020-2021

YEAR-III/II

DATE:-15-04-2021

LINK: <https://em-coep.vlabs.ac.in/exp/load-test-dc-motor/procedure.html>

#### Screen shot-1



**Aim** Blocked rotor test on three phase induction motor

**Theory**

**Pretest** Procedure

**Procedure**      1. Rotor of induction motor is blocked in order to perform block rotor test.

**Simulation**      2. Close the TPST (Triple Pole Single Throw) switch connecting three phase mains supply to induction motor

                         3. Vary input current from zero to rated value (415V)

**Posttest**            4. Observe the readings of voltmeter, ammeter, watt meters and tachometer at different v/p voltages.

**References**        5. Now increase the voltage by clicking the arrows on three phase variac

**Feedback**

6. Store this data by clicking 'Start Storing Data'

7. Go on repeating this procedure till sufficient readings are stored.

#### Screen shot-2



Input Voltage (V)	Input Current (A)	Power (W)	Speed (rpm)
0.47	09.06	22.94	15
1.02	100.24	29.31	55
1.50	528.12	29.31	50
1.45	444.81	29.31	55
1.77	542.97	29.31	50
1.97	674.42	29.31	55

9. Now select one of the graph from available graphs and use "Generate graph" to plot the graph. For Ex.



## PSS LAB

ACADEMIC YEAR : 2020-2021

YEAR-IV/I

DATE:-16-03-2021

LINK: <https://vp-dei.vlabs.ac.in/Dreamweaver/>

### Screen shot-1

Simulation

Video of Exp.1

Quiz

2. Voltmeter-1  
3. Rheostat-2  
4. Tachometer-1

**THEORY** (click here)

**CONNECTION DIAGRAM**

Fig 1.1: Connection diagram for synchronizing the alternator with 3-lamp method

**PROCEDURAL STEPS**

1. Make the connection diagram as shown in figure 1.1
2. Run one of the alternators and adjust its voltage at rated value and close switch to bus bar.

### Screen shot-2

Observation

Simulation

Videos of Exp.2

Quiz

**EQUIPMENTS REQUIRED**

1. Ammeter: 0 - 15A, 0 - 2.5A.
2. Voltmeter: 0 - 40V, 0 - 250V
3. Wattmeter: 0 - 1400 W.

**CIRCUIT DIAGRAM**

Fig 2.1: Circuit diagram for Slip Test



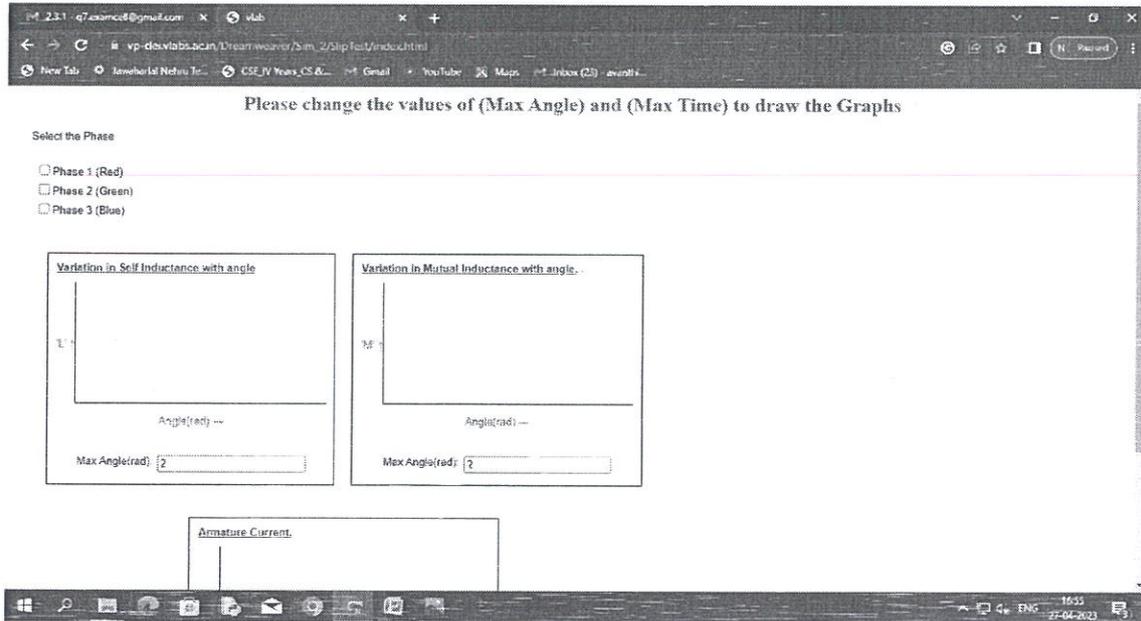
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**Screen shot-3**



**HOD-EEE**

Head of The Department  
Department of Electrical and Electronics Engineering  
Avanathi Institute of Engg. & Tech.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram(Dist)-531163



## DEPARTMENT OF MECHANICAL ENGINEERING

### Virtual Lab Conducted By The Department

#### HEAT TRANSFER LAB

ACADEMIC YEAR : 2020-2021

YEAR-III/II

DATE:-15-04-2021

LINK:-HEAT TRANSFER (<https://mfts-iitg.vlabs.ac.in/>)

#### Screen shot-1

Q = -kA \frac{(T\_1 - T\_2)}{x}

#### Screen shot-2



## ROCKWELL HARDNESS TEST

ACADEMIC YEAR : 2020-2021

YEAR-III/I

DATE:-9-03-2021

LINK:- <https://sm-nitk.vlabs.ac.in/exp/rockwell-hardness-test>

### Screen shot-1

The screenshot displays the virtual lab interface for the Rockwell Hardness Test. It features a 3D model of the testing machine and a list of materials to be tested. The objective is to find the Rockwell hardness number of Mild Steel, Cast Iron, Brass, Aluminium and Spring Steel etc. The apparatus used is the Rockwell hardness testing machine.

**Objective:**  
To find the Rockwell hardness number of Mild Steel, Cast Iron, Brass, Aluminium and Spring Steel etc.

**Apparatus used:**  
Rockwell hardness testing machine

© 2016 - 2020 SCLVE - The Virtual Lab © NITK Surathkal, Department of Water Resources & Ocean Engineering



## CNC TURNING

ACADEMIC YEAR: 2020-2021

YEAR-IV/I

DATE:-23-3-2021

LINK:- <http://vlabs.iitkgp.ac.in/psac/newlabs2020/vlabiitkgpAM/exp2/index.html#>

### Screen shot-1

**Virtual Labs**  
An MoE Govt of India Initiative

**VIRTUAL LAB ON BASIC MANUFACTURING**

Home > Virtual Lab on Manufacturing processes > CNC Turning

## CNC Turning

[INTRODUCTION](#) [PREQUIZZ](#) [THEORY](#) [OBJECTIVE](#) [PROCEDURE](#) [SIMULATOR](#) [QUIZZES](#) [REFERENCE](#)

### Objective

1. To study the CNC turning machine.
2. To perform experiments on the CNC turning machine like step turning and facing
3. Cutting mechanism of the CNC machine.

### Screen shot-2

**CNC Simulator**

**Tool Motion Controller**

Spindle Motion (RPM)	0	START	STOP
Tool X Position Set	0	START	STOP
Tool Y Position Set	0	START	STOP
Tool Z Position Set	0	START	STOP



**Load test on SI Engine**

ACADEMIC YEAR: 2020-2021

YEAR-II/II

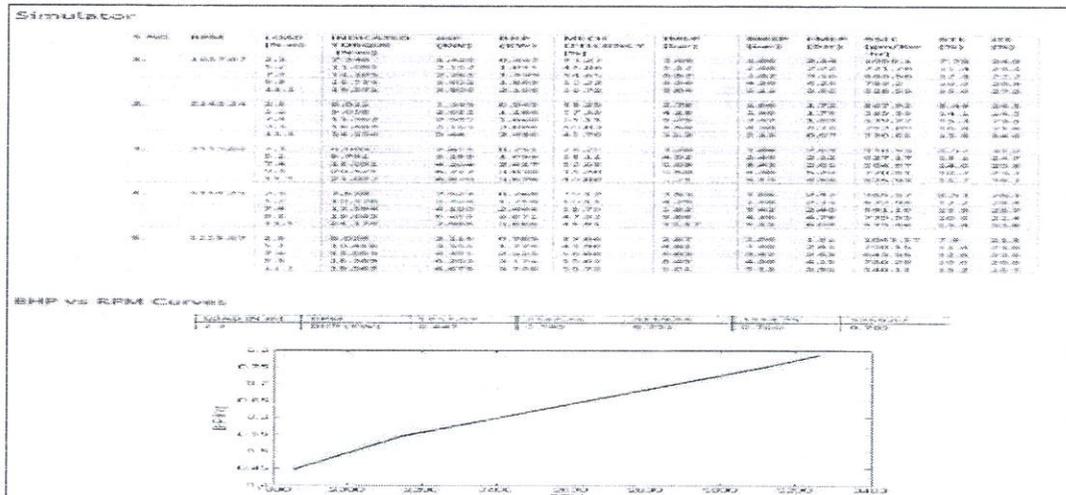
DATE:-22-04-2021

LINK:- <http://vlabs.iitkgp.ac.in/rtvlas/exp3/index.html#>

Screen shot-1

The screenshot shows the Virtual Labs interface for the experiment 'Load Test on a SI Engine'. At the top, it says 'Virtual Labs' and 'REMOTE TRIGGERED VIRTUAL LAB ON AUTOMOTIVE SYSTEMS'. Below that, there are navigation tabs: INTRODUCTION, THEORY, OBJECTIVE, PROCEDURE, SIMULATOR, QUIZ, and REFERENCE. The 'PROCEDURE' tab is selected, showing a detailed description of the remote lab setup and the steps for conducting the experiment, including starting the engine, adjusting the dynamometer load, and recording data for five different loads.

Screen Shot-2



*[Handwritten Signature]*  
**HOD-MECH**  
**MECHANICAL DEPARTMENT**  
 AVANTHI INSTITUTE OF ENGG. & TECH  
 Vizianagaram (Dist.)



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**VIRTUAL LAB**

**BASIC ELECTRONICS LAB**

ACADEMIC YEAR: 2020-2021

YEAR-III/I

DATE:-18/10/2020

LINK:- (<https://www.vlab.co.in/broad-area-electronics-and-communications>)

**Screen shot-1**

**Virtual Labs**  
An MoE Govt of India Initiative

**BASIC ELECTRONICS VIRTUAL LABORATORY**

Home > Basic Electronics Lab > VI Characteristics of a Diode

## VI Characteristics of a Diode

THEORY  
 PROCEDURE  
 SIMULATION  
 QUIZ  
 ASSIGNMENT  
 REFERENCES

**Theory**

**Objectives**

At the end of the experiment, the student should be able to

1. Explain the structure of a P-N junction diode
2. Explain the function of a P-N junction diode
3. Explain forward and reverse biased characteristics of a Silicon diode
4. Explain forward and reverse biased characteristics of a Germanium diode

**Screen shot-2**

**Virtual Labs**  
An MoE Govt of India Initiative

### Forward Bias Silicon Diode

**INTRODUCTION**

1. Set DC voltage to 0.2 V.
2. Select the diode.
3. Set the resistor.
4. Voltmeter is placed parallel to Silicon diode and ammeter series with resistor.
5. The positive side of battery to the P side(anode) and the negative of battery to the N side(cathode) of the diode.
6. Now vary the voltage upto 5V and note the Voltmeter and Ammeter reading for particular DC voltage.
7. Take the readings and note Voltmeter reading across Silicon diode and Ammeter reading.
8. Plot the V-I graph and observe the change.
9. Calculate the dynamic resistance of the diode.  $r_d = \Delta V / \Delta I$
10. Therefore from the graph we see that the diode starts conducting when the forward bias voltage exceeds around 0.6 volt (for Si diode). This voltage is called cut-in voltage.

**CONTROL PANEL**

Select Diode:  V<sub>r</sub>:  Volt

DC Volt:  Volt

Resistance:  Ohms



## ANALOG COMMUNICATIONS LAB

ACADEMIC YEAR : 2020-2021

YEAR-II/II

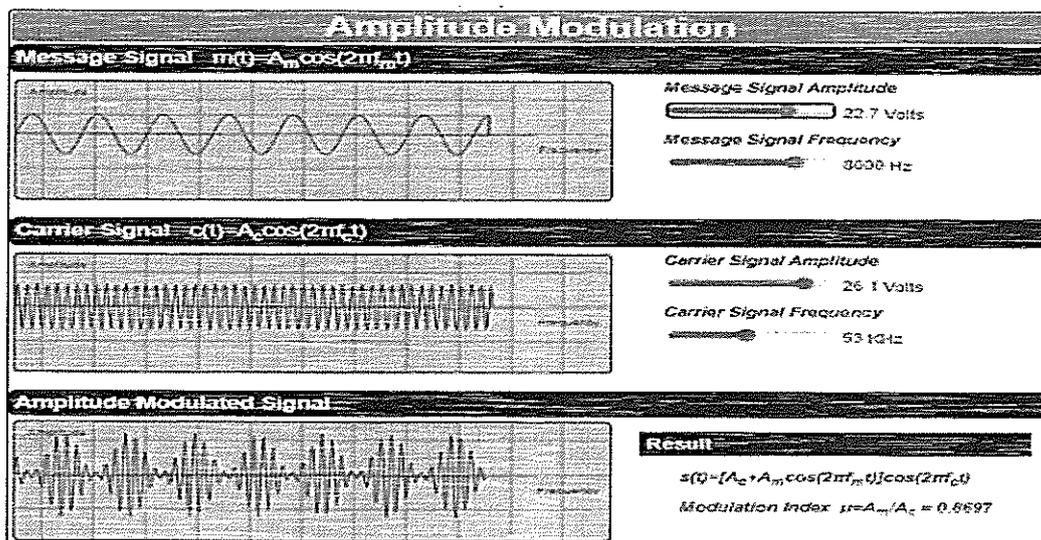
DATE:-14-04-2021

LINK:-

(<https://kcgcollege.ac.in/Virtual-Lab/Electronics-and-Communication-Engineering/index.html>)

### Screen shot-1

### Screen shot-2





## VLSI LAB

ACADEMIC YEAR: 2020-2021

YEAR-III/II

DATE:-15-04-2021

LINK:-

<https://kcgcollege.ac.in/Virtual-Lab/Electronics-and-Communication-Engineering/index.html>

### Screen shot-1

**Shikshat Virtual Lab**  
INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Home About People Contact Us

Logic Gates

Theory Self Evaluation **Procedure** Simulation Assignment Reference Video

Step by Step Procedure

1. Go to the simulator tab and click on any of the link provided. Multiple links may be available on the page corresponding to different sub-experiments and methods of implementation. Once you click on any link, a new web page will pop-up which will form the platform for conducting the virtual experiment
2. On the new window, provisions are available to change the default input settings (frequency, phase, voltage ...etc) by editing the code section
3. Click on the simulate button for starting the simulation experiment.

### Screen shot-2

**Amplitude Modulation**

Message Signal  $m(t) = A_m \cos(2\pi f_m t)$

Carrier Signal  $c(t) = A_c \cos(2\pi f_c t)$

Amplitude Modulated Signal

Message Signal Amplitude: 22.7 Volts  
Message Signal Frequency: 3000 Hz

Carrier Signal Amplitude: 26.1 Volts  
Carrier Signal Frequency: 53 kHz

**Result**

$s(t) = [A_c + A_m \cos(2\pi f_m t)] \cos(2\pi f_c t)$   
Modulation Index  $\mu = A_m / A_c = 0.8697$

Head of the Department  
Electronics & Communication Engineering  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (VIII), Bhogapuram (M)  
VIZIANAGARAM (DIST)



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**VIRTUAL LAB**  
**CRYPTOGRAPHY LAB**

**ACADEMIC YEAR : 2020-2021      YEAR-III/II      DATE:-13-4-2021**  
**LINK:- CRYPTOGRAPHY LAB ( <https://cse29-iiith.vlabs.ac.in/> )**

**Screen shot-1**

**Screen shot-2**



## JAVA LAB

ACADEMIC YEAR : 2020-2021

YEAR-II/II

DATE:-14-4-2021

LINK:-JAVA (<https://java-iitd.vlabs.ac.in/exp/constructors/index.html>)

### Screen shot-1

© 2019 Virtual Labs. All rights reserved.

### Screenshot-2



## SOFTWARE ENGINEERING LAB

ACADEMIC YEAR : 2020-2021

YEAR-II/I

DATE:-15-03-2021

LINK:- <http://vlabs.iitkgp.ernet.in/se/>

### Screen shot-1

**Virtual Labs**

Home Credits Feedback Advanced Network Technologies Virtual Lab Virtual Labs

### Software Engineering Virtual Lab

#### Introduction

Research analysis manifests clear trends of growing interest of the Computer Science students towards e-learning. To keep this trend as well as the pace with the rapid advancement of software technologies, the "Software Engineering Virtual Lab" has been developed. This lab attempts to provide basic concepts to the students on a wide range of topics including Requirements analysis, ER modeling, identification of domain classes, use-case diagrams and designing a test suite. Ample illustrations and simulations are used to reinforce one's understanding. Once the concepts are clear, a set of exercises given on the concerned topics would help the students to evaluate themselves and their progress of learning. The main focus is to enable the students to interact with the "virtual" teacher in an effective and efficient manner compared to how they would do in a real lab on the subject.

#### Objectives

The Software Engineering Virtual Lab has been developed by keeping in mind the following objectives.

- To impart state-of-the-art knowledge on Software Engineering and UML in an interactive manner through the Web.

### Screen shot-2

#### List of Experiments

- 1. Identifying the Requirements from Problem Statements**  
Requirements: Characteristics of Requirements / Categorization of Requirements: Functional Requirements: Identifying Functional Requirements
- 2. Estimation of Project Metrics**  
Project Estimation Techniques: COCOMO: Basic COCOMO Model: Intermediate COCOMO Model: Complete COCOMO Model: Advantages of COCOMO: Drawbacks of COCOMO: Halstead's Complexity Metrics
- 3. Modeling UML Use Case Diagrams and Capturing Use Case Scenarios**  
Use case diagrams: Actor: Use Case: Subject: Graphical Representation: Association between Actors and Use Cases: Use Case Relationships: Include Relationship: Extend Relationship: Generalization Relationship: Identifying Actors: Identifying Use cases: Guidelines for drawing Use Case diagrams
- 4. E-R Modeling from the Problem Statements**  
Entity Relationship Model: Entity Set and Relationship Set: Attributes of Entity: Keys: Weak Entity: Entity Generalization and Specialization: Mapping Cardinalities: ER Diagrams: Graphical Notation for ER Diagrams: Importance of ER modeling
- 5. Identifying Domain Classes from the Problem Statements**  
Domain Class: Traditional Techniques for Identification of Classes: Organizational Approach Using Names: Advantages: Disadvantages: Using Generalization: Using Software: Steps to Identify Domain Classes from Problem Statement: Advanced Concepts



## DATA STRUCTURES LAB

ACADEMIC YEAR: 2020-2021

YEAR-I/II

DATE:-31-03-2021

LINK:- <https://ds1-iiith.vlabs.ac.in/exp/binary-search-trees/index.html>

### Screen shot-1

Virtual Labs  
An IIT Madras Center of Excellence

HOME PARTNERS CONTACT

Learning Objectives of the Experiment

In this experiment on Binary search tree, we will learn the following:

- Structure, representation and Implementation of BST.
- Getting acquainted with Terminologies related to trees, Binary trees and BST.
- Binary Search Tree property and differences between a binary tree and a binary search tree.
- Operations on BST, their algorithms and time and space complexity analysis.
- Uses and relationship with other data structures such as Dictionaries and priority Queues
- Applications of a BST in searching, sorting etc.

### Screen shot-2

Computer Science and Engineering > Data Structures - 1 > Experiments

Binary Search Tree

Inserting a new node into a BST

- Start from root.
- Compare the inserting element with root and if it's lesser than root, then recurse for left, else recurse for right.
- After reaching the end, just insert that node at left if less than current, else right.

Head of the Department  
Computer Science and Engineering  
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HOD-CSE



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**ACADEMICS PROJECTS**

**DEPARTMENT OF CIVIL ENGINEERING**

Academic year: 2020-2021

Year/Sem: II/I

**PROJECTS AND THEIR TITLES**

S.No	Roll No	Name of The Student	Project Title
1	17Q71A0101	Annepu Upendra	RCC Structures: Maintenance, Repair and Rehabilitation
2	17Q71A0102	Baddem Sai Lokesh	Planning, Analysis and Design of Multistoried RCC Framed Structures for A Residential Building
3	17Q71A0103	Badithaboina Divija	RCC Structures: Maintenance, Repair and Rehabilitation
4	17Q71A0104	Chandaka Srihari	Case Study on Flexible Pavement Failure
5	17Q71A0105	Dappodi Digvijay	Study on Strength Parameters on Fiber Reinforced Concrete for M30 Grade Concrete
6	17Q71A0108	Girada Vykunta Rao	An Experimental Study on Shear Performance of RC Beams Using Steel Fibers
7	17Q71A0109	Gokada Bhanu Kumar	Planning, Analysis and Design of Multistoried RCC Framed Structures for A Residential Building
8	17Q71A0110	Gorrela Praveen Kumar	Partial Replacement of Cement with Rice Husk Ash
9	17Q71A0111	Gotta Ganesh	Study on Strength Parameters on Fiber Reinforced Concrete for M30 Grade Concrete
10	17Q71A0112	Kolla Srinivasarao	A Case Study of Water Supply Unit for Rural Areas
11	17Q71A0114	Menda Mahesh	Study on Strength Parameters on Fiber Reinforced Concrete for M30 Grade Concrete
12	17Q71A0115	Metta Devendhar	Study on Strength Parameters on Fiber Reinforced Concrete for M30 Grade Concrete
13	17Q71A0117	Nakka Umesh Chandra	Case Study on Flexible Pavement Failure
14	17Q71A0120	Saikrishna V	Partial Replacement of Cement with Rice Husk Ash

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15	17Q71A0122	Singireddi Venkata Ramana	RCC Structures: Maintenance, Repair and Rehabilitation
16	18Q75A0101	Chalumuri Ravi Teja	Planning, Analysis and Design of Multistoried RCC Framed Structures for A Residential Building
17	18Q75A0102	Dogga Ravikumar	Partial Replacement of Cement with Rice Husk Ash
18	18Q75A0103	Gorle Prabhu	An Experimental Study on Shear Performance of RC Beams Using Steel Fibers
19	18Q75A0105	Gudla Naveen	An Experimental Study on Shear Performance of RC Beams Using Steel Fibers
20	18Q75A0108	Kimmi Venkata Nikhil	Case Study on Flexible Pavement Failure
21	18Q75A0109	Koduru Manikanta	A Case Study of Water Supply Unit for Rural Areas
22	18Q75A0110	Lenka Dinesh	Planning, Analysis and Design of Multistoried RCC Framed Structures for A Residential Building
23	18Q75A0111	Nalla Ravi	RCC Structures: Maintenance, Repair and Rehabilitation
24	18Q75A0112	Nallasamanta Shankara Rao	Study on Strength Parameters on Fiber Reinforced Concrete for M30 Grade Concrete
25	18Q75A0113	Madaka Santosh Kumar	A Case Study of Water Supply Unit for Rural Areas
26	18Q75A0114	Ramesh Sambangi	RCC Structures: Maintenance, Repair and Rehabilitation
27	18Q75A0116	Sadhu Vamsi	A Case Study of Water Supply Unit for Rural Areas
28	18Q75A0117	Suri Pavan Kalyan	Study on Strength Parameters on Fiber Reinforced Concrete for M30 Grade Concrete
29	18Q75A0118	Suri Raja Rao	An Experimental Study on Shear Performance of RC Beams Using Steel Fibers
30	18Q75A0119	Vasamsetti Pavan Kumar	A Case Study of Water Supply Unit for Rural Areas
31	18Q75A0120	Voona Pavan Kumar	Partial Replacement of Cement With Rice Husk Ash
32	18Q75A0121	Vyasalapu Sunny Deepak	Case Study on Flexible Pavement Failure
33	18Q75A0122	Yalla Sai Venkata Jagadeesh	Case Study on Flexible Pavement Failure



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---

**DEPARTMENT OF CIVIL ENGINEERING**

**Sample copies of project work**

*A project report on*

**PARTIAL REPLACEMENT OF CEMENT WITH RICE  
HUSK ASH**

*Submitted in partial fulfilment of the requirement for the award of degree,*

*Of*

**BACHELOR OF TECHNOLOGY**

*In*

**CIVIL ENGINEERING**

Submitted By

V SAIKRISHNA

17Q71A0120

G PRAVEEN

17Q71A0110

D RAVIKUMAR

18Q75A0102

VOONA PAVAN

18Q75A0120

Under the guidance of

**Sri T. PRASANTHI M. TECH.**

Assistant Professor



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**TECHNOLOGICAL**  
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Kakinada) Vizianagaram (AIET  
VIZIANAGARAM)



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Vizianagaram -531162.  
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---

## **CASE STUDY ON FLEXIBLE PAVEMENT FAILURE**

Project report submitted in partial fulfillment of the requirements for the award of Degree of

**BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING**  
BY

CH. SRI HARI (17Q71A0104)  
N.UMESH CHANDRA (17Q71A0117)  
K.V.NIKHIL (18Q75A0108)  
V.SUNNY DEEPAK (18Q75A0121)  
Y.S.V.JAGADEESH (18Q75A0122)

UNDER THE GUIDANCE OF  
**Mrs. P. PALLAVI (M.Tech)**  
Asst. Professor

DEPARTMENT OF CIVIL ENGINEERING



**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Affiliated to JNTUK)

**CHERUKUPALLI (V), NEAR TAGARAPUVALASA BRIDGE,  
BHOGAPURAM (M), VIZINAGARAM (DIST), 531162**

13/05/2018

---

Avanathi Institute of Engineering and Technology



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Vizianagaram -531162.  
www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

---

**PLANNING, ANALYSIS  
AND DESIGN OF A MULTISTORIED RCC FRAMED  
STRUCTURE FOR A RESIDENTIAL BUILDING**

A project Submitted in partial fulfillment of the required for the award of degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**CIVIL ENGINEERING**

**G.BHANU KUMAR (17Q71A0109)**

**B.SAI LOKESH (17Q71A0102)**

**CH.RAVITEJA (18Q75A0101)**

**L.DINESH (18Q75A0110)**

**K.LOKESH KUMAR (17Q75A0103)**

Under the guidance of

Assistant Professor **I.SANTOSH KUMAR M.Tech**



**DEPARTMENT OF CIVIL ENGINEERING  
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
VIZIANAGARAM - 531083**



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[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

**RCC STRUCTURE: MAINTENANCE, REPAIR AND  
REHABILITATION**

A project Submitted in partial fulfillment of the required for the award of degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**CIVIL ENGINEERING**

A. Upendra -17Q71A0101

B. Divija -17Q71A0103

S. Venkataramana -17Q71A0122

N. Ravi -18Q75A0111

S. Ramesh -18Q75A0114

Under the guidance of

Assistant Professor Mrs. SUMATHI MISRO M.E



**DEPARTMENT OF CIVIL ENGINEERING**  
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---

**A CASE STUDY OF WATER SUPPLY UNIT FOR RURAL  
AREAS**

*This is submitted in partial fulfillment of the requirements for the award of the degree*

**BACHELOR OF TECHNOLOGY  
IN  
CIVIL ENGINEERING**

*Submitted By*

M SANTOSH KUMAR(18Q75A0113)

K MANIKANTA(18Q75A0109)

K SRINIVASA RAO(17Q71A0112)

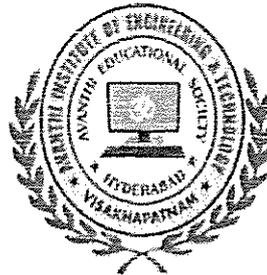
V PAVAN KUMAR(18Q75A0119)

*S VAMSI(18Q75A011)*

*Under the Esteemed Guidance of*

**Assistant Professor**

**R. ROHIT BABU**



Department of Civil Engineering  
**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
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VISAKHAPATNAM – 530 048

2017– 2021



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Vizianagaram -531162.  
www.aietta.ac.in, principal@aietta.ac.in

**AN EXPERIMENTAL STUDY ON SHEAR PERFORMANCE OF  
R.C BEAMS USING STEEL FIBRES**

*Dissertation submitted in partial fulfillment of requirements for the award of the*

*Degree of*

Bachelor of technology

In

Civil Engineering

Submitted By

G. VYKUNTA RAO (17Q71A0108)

G. PRABHU (18Q75A0103)

G. NAVEEN (18Q75A0105)

S. RAJA RAO (18Q75A0118)

*Under the Esteemed Guidance of*

K. Anil kumar

Assistant Professor



Department of Civil Engineering  
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
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VISAKHAPATNAM – 530 048  
2017–2021

*P. Venkatesh*  
HOD-CIV



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Academic year: 2020-2021

Year/Sem: IV/II

**PROJECTS AND TITLES**

S.NO	PIN NUMBER	TITLE	GUIDE NAME
<b>BATCH-1</b>			
1	17Q71A0203	LVRT IN DISTRIBUTION SYSTEM USING SEN TRANSFORMER	Dr.S.N.V.GANESH
2	18Q75A0203		
3	17Q71A0215		
4	18Q75A0241		
<b>BATCH-2</b>			
1	17Q71A0210	HIGH STEP-UP QUASI Z-SOURCE DC-DC CONVERTER	D.DHANA PRASAD
2	18Q75A0228		
3	17Q71A0205		
4	18Q75A0217		
<b>BATCH-3</b>			
1	18Q75A0233	ELECTRIC BICYCLE	V.SUDHAKAR
2	18Q75A0206		
3	18Q75A0237		
4	18Q75A0224		
5	17Q71A0204		
6	18Q75A0238		
<b>BATCH-4</b>			
1	18Q75A0214	SOLAR CAR	A.ARJUNA RAO
2	18Q75A0204		
3	17Q71A0208		
4	17Q71A0212		
5	18Q75A0227		
6	17Q71A0209		
<b>BATCH-5</b>			
1	17Q71A0207	PHOTO VOLTAIC LUO CONVERTER DRIVE	Dr.S.N.V.GANESH
2	18Q75A0220		
3	17Q71A0216		
4	18Q75A0221		
<b>BATCH-6</b>			
1	18Q75A0230	SPACE VECTOR VS SINUSOIDAL CARRIER BASED PULSE WIDTH MODULATION FOR A 3-PHASE VOLTAGE SOURCE INVERTER	B.GANESH KUMAR
2	17Q71A0213		
3	18Q75A0225		
4	18Q75A0213		
5	18Q75A0216		

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<b>BATCH-7</b>			
1	18Q75A0205	POWER QUALITY IMPROVEMENT IN WIND ENERGY CONVERSION SYSTEM USING AI -STATCOM	D.DHANA PRASAD
2	18Q75A0235		
3	18Q75A0231		
4	18Q75A0232		
<b>BATCH-8</b>			
1	18Q75A0208	MAXIMUM POWER POINT TRACKING FOR PV SYSTEMS UNDER NON-LINEAR INPUT PARAMETERS	B.GANESH KUMAR
2	17Q71A0214		
3	18Q75A0240		
4	18Q75A0223		
5	18Q75A0218		
<b>BATCH-9</b>			
1	18Q75A0229	ANN CONTROLLER BASED FILTER FOR HARMONIC REDUCTION	B.ANAND SWAROPP
2	18Q75A0226		
3	18Q75A0210		
4	17Q71A0206		
<b>BATCH-10</b>			
1	18Q75A0209	IMPLEMENTATION OF FUZZY CONTROLLER IN UPQC FOR POWER QUALITY IMPROVEMENT	V.SUDHAKAR
2	18Q75A0207		
3	18Q75A0234		
4	18Q75A0212		



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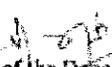
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Bhogapuram(M), Vizianagaram(Dist), Andhra Pradesh, Recognised by Govt of A.P  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



## CERTIFICATE

This is to certify that the project entitled "LVRT IN DISTRIBUTION SYSTEM USING  
SEN TRANSFORMER" has submitted by following students of EEE department  
D.JANARDHAN (17Q71A0203), B.PAVAN KUMAR (18Q75A0203), Y.SIVA  
(17Q71A0215), K.NAVEEN (18Q75A0241) as the partial fulfillment for the award of the  
degree of "BACHELOR OF TECHNOLOGY" in ELECTRICAL AND ELECTRONICS  
ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,  
affiliated to Jawaharlal Nehru technological university, Kakinada during the academic year  
2020-21

  
Project guide  
Dr. S.N.V. GANESH  
Professor & Principal  
EEE dept.

  
Head of the Department  
A. ARJUN RAO, M.Tech (P.H.D.)  
Associate Professor  
EEE Dept.

EXTERNAL EXAMINER

1

Avanthi Institute of Engineering and Technology



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Recognised by Govt of A.P

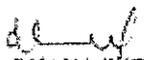
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



**CERTIFICATE**

This is to certify that the project entitled "HIGH STEP-UP QUASI Z SOURCE DC-DC CONVERTER" has submitted by R. TRIVENI, P. RAVI, K. SANDEEP VAMSI, K. GURUNADHA RAO Bearing pin 17Q71A0210, 18Q75A0228, 17Q71A0205, 18Q75A0217 in the partial fulfillment for the award of the degree of "BACHELOR OF TECHNOLOGY" in ELECTRICAL AND ELECTRONICS ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, affiliated to Jawaharlal Nehru technological university, Kakinada during the academic year 2020-21

Project Guide

  
Mr. D. DILANA PRASAD, MTech

Assistant Professor

Dept. EEE

Head of the department

  
Mr. A. ARJUNA RAO, (Ph.D.)

Associate Professor

Dept. EEE

External Examiner



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---

## ELECTRIC BICYCLE

*A project report submitted in partial fulfillment of the requirements for the award of the degree of*

*Bachelor of Technology*

*in*

*Electrical and Electronic Engineering*

**Submitted by:**

SASHA	(18Q75A0233)
R.K.VINAYAK	(18Q75A0206)
T.AJAY SHANKAR	(18Q75A0237)
N.SHYAM KUMAR	(18Q75A0234)
G.MANUJ	(17Q75A0204)
J.ROKESH	(18Q75A0236)

Under the Guidance of

MR.V.SUDHAKAR, (M.Tech)

Assistant Professor



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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Cherukupally V, Bhogapuram(M), Vizianagaram (Dist ), A.P.

2017-2021



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

This is to certify that the project entitled "ELECTRIC BICYCLE" has been submitted by the following students of EEE department SASILA(18Q75A0233), B.K.V.VINAYAK (18Q75A0206), T.AJAY SHANKAR (18Q7A0237), N.SIHYAM KUMAR (18Q75A0224), G.MANOJ(17Q71A0204), J.ROKESH (18Q75A0238) as a partial fulfilment of the requirement of the award of degree of "BACHELOR OF TECHNOLOGY" in the Electrical and Electronics Engineering, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY during the academic year 2017-2021.

Project Guide

V.SUDHAKAR, M.Tech

Assistant Professor

EEE Dept.

Head of the Department

  
A.ARJUN RAO, M.Tech (Ph.D)

Associate Professor

EEE Dept.

External Examiner



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## SOLAR CAR

*Project report submitted in partial fulfillment of the requirements for the award of the degree in*

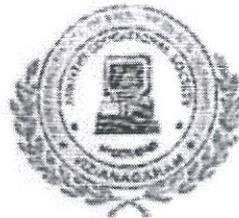
*Bachelor in Technology*

*Electrical and Electronics Engineering*

Submitted by

G. NAVEEN	(18Q75A0314)
B. MANI KANTA	(18Q75A0204)
N. VENUGOPAL	(17Q71A0208)
R. SAI KISHORE	(17Q71A0212)
P. KUMAR KALVAN	(18Q75A0227)
P. LOKESH	(17Q71A0209)

Under the Guidance of  
Mr. A. ARJUNA RAO M.Tech (P&D)  
Associate Professor



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING.

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Cherukupally(V), Bhogapuram(M), Vizianagaram (Dist ), A.P

2017-2021

  
HOD-EEE

Head of The Department  
Department of Electrical and Electronics Engineering  
Avanthi Institute of Engg. & Tech.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram (Dist)-531163

Avanthi Institute of Engineering and Technology



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**DEPARTMENT OF MECHANICAL ENGINEERING**

Academic year: 2020-2021

Year/Sem: IV/II

**PROJECTS AND THEIR TITLES**

S.NO	PIN NUMBER	TITLE	GUIDE NAME
<b>BATCH-1</b>			
1	18Q75A0332	FABRICATION OF ELECTRIC CAR	G.RAMU
2	18Q75A0340		
3	18Q75A0307		
4	18Q75A0306		
<b>BATCH-2</b>			
1	18Q75A0361	DESIGN AND INSTALLATION OF SOLAR POWERED RECIPROCATING PUMP	G.LAVANYA LAKSHMI
2	18Q75A0347		
3	18Q75A0358		
4	18Q75A0363		
<b>BATCH-3</b>			
1	18Q75A0320	HYBRID TWO WHEELER	K.KESAVA RAO
2	18Q75A0319		
3	18Q75A0314		
4	18Q75A0316		
5	17Q71A0304		
<b>BATCH-4</b>			
1	18Q75A0344	DESIGN AND FABRICATION OF CYCLONE DUST COLLECTOR	V.PRADEEP KUMAR
2	18Q75A0374		
3	18Q75A0379		
4	18Q75A0376		
5	18Q75A0365		
<b>BATCH-5</b>			
1	18Q75A0308	FABRICATION OF PEDAL OPERATED CAR	M.MADHU VAMSI
2	18Q75A0301		
3	18Q75A0321		
4	18Q75A0333		
5	17Q75A0326		
<b>BATCH-6</b>			
1	18Q75A0304	FABRICATION AND DESIGN OF SOLAR GRASS CUTTER	A C RAMANJANEYULU
2	18Q75A0310		
3	18Q75A0311		
<b>BATCH-7</b>			
1	18Q75A0322	FABRICATION OF SOLAR E-BIKE	B.AVINASH BEN
2	18Q75A0329		
3	18Q75A0324		
4	18Q75A0309		



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5	16Q71A0332		
<b>BATCXH-8</b>			
1	18Q75A0343	FABRICATION OF MOBILE CONTROL MOTORIZED SCREW JACK	J.JAGADISH
2	18Q75A0359		
3	18Q75A0341		
4	18Q75A0353		
5	18Q75A0356		
<b>BATCH-9</b>			
1	17Q71A0315	FABRICATION OF THREAD MILL BICYCLE	G.CHANDRA SEKHAR
2	18Q75A0336		
3	18Q75A0305		
4	18Q75A0317		
<b>BATCH-10</b>			
1	18Q75A0313	FABRICATION OF TWO WHEELER ELECTRIC LONG BIKE	M.LAKSHMISRAMI KA
2	17Q71A0318		
3	17Q71A0317		
4	17Q71A0313		
5	17Q71A0303		
6	16Q71A0330		
<b>BATCH-11</b>			
1	17Q71A0361	RIVER WATER CLEANING MACHINE	P.SURESH KUMAR
2	17Q71A0360		
3	18Q75A0382		
4	18Q75A0389		
5	18Q75A03B9		
<b>BATCH-12</b>			
1	18Q75A03A2	DESIGN AND FABRICATION OF LEAD SCREW FORK LIFT	M.RAGAVA RAO
2	18Q75A03A0		
3	17Q71A0358		
4	17Q71A0355		
<b>BATCH-13</b>			
1	17Q71A0350	FABRICATION OF SEGWAY	P.ANIL KUMAR
2	17Q71A0353		
3	17Q71A0352		
4	17Q71A0359		
5	17Q71A0348		
<b>BATCH-14</b>			
1	17Q71A0344	DESIGN AND FABRICATION OF AN AUTOMATIC SHOE POLISHING MACHINE	J.JAGADISH
2	17Q71A0342		
3	18Q75A0396		
4	18Q75A0395		
5	18Q75A0386		



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**SECTION-B**

S.NO	PIN NO	TITLE	GUIDE NAME
<b>BATCH-1</b>			
1	17Q71A0308	FABRICATION OF SOLAR BICYCLE USING BATTERY	Mr.M.MADHU VAMSI
2	17Q71A0301		
3	17Q71A0314		
4	18Q75A0335		
5	18Q75A0338		
<b>BATCH-2</b>			
1	17Q71A0321	FABRICATION OF RAPID COOLING SETUP	Mr.SURESH PANDA
2	17Q71A0334		
3	17Q71A0338		
4	18Q75A0352		
5	18Q75A0370		
<b>BATCH-3</b>			
1	17Q71A0315	DESIGN AND FABRICATION OF THREAD MILL BICYCLE	Mr.G.CHANDRA SEKHAR
2	18Q75A0336		
3	18Q75A0305		
4	18Q75A0317		
<b>BATCH-4</b>			
1	17Q71A0318	FABRICATION OF TWO WHEELERS ELECTRIC LONG BIKE	Miss.M.LAKSHMI SRAMIKA
2	17Q71A0317		
3	17Q71A0313		
4	17Q71A0303		
<b>BATCH-5</b>			
1	17Q71A0361	RIVER WATER CLEANING MACHINE	Mr.P.SURESH KUMAR
2	18Q75A0382		
3	18Q75A0389		
4	18Q75A03B9		
5	17Q75A0360		
<b>BATCH-6</b>			
1	17Q71A0362	FABRICATION OF SOLAR ELECTRIC CAR	Mr.G.RAMU
2	18Q75A03B7		
3	18Q75A0357		
4	18Q75A0356		
5	18Q75A0343		
<b>BATCH-7</b>			
1	18Q75A0331	HYBRID POWER GENERATION	Mr.A.M.VENKATA



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2	18Q75A0315		PRAVEEN
3	18Q75A0330		
4	18Q75A0337		
5	17Q71A0305		
<b>BATCH-8</b>			
1	18Q75A0312	DESIGN OF SOLID 3D PRINTER	Miss M.LAKAHMI SRAMIKA
2	18Q75A0334		
3	18Q75A0302		
4	17Q71A0302		
5	17Q71A0311		
<b>BATCH-9</b>			
1	18Q75A0316	HARVESTING OF RAIN WATER & HARNESSING SOLAR	Mr. A.C. RAMANJAN EYULU
2	18Q75A0349		
3	18Q75A0342		
4	18Q75A0377		
5	18Q75A0355		
<b>BATCH-10</b>			
1	18Q75A0345	SMART EPIDEMIC TUNNEL	Mr. V. PRADEEP KUMAR
2	18Q75A0369		
3	18Q75A0375		
4	17Q71A0322		
5	17Q71A0330		
<b>BATCH-11</b>			
1	18Q75A0364	DESIGN AND DEVELOPMENT OF CATALYTIC CONVERTER FOR REDUCING OF POLLUTION BY USING TRANSIENT AND CFD ANALYSIS	Mr. V. SARANTEJ
2	18Q75A0367		
3	17Q71A0339		
<b>BATCH-12</b>			
1	17Q71A0319	DESIGN AND FABRICATION OF MULTIPURPOSE STAIRLIFTER	Dr. B. AVINASH BEN
2	17Q71A0320		
3	17Q71A0316		
4	17Q71A0309		
5	18Q75A0328		



**SECTION-C**

<b>S.NO</b>	<b>PIN NUMBER</b>	<b>TITLE NAME</b>	<b>GUIDE NAME</b>
<b>BATCH-1</b>			
1	18Q75A0314	HYBRIDE TWO WHEELER	MR.K.KESAVA RAO
2	18Q75A0316		
3	18Q75A0319		
4	18Q75A0320		
5	17Q71A0304		
<b>BATCH-2</b>			
1	18Q75A0304	DESIGN AND FABRICATION OF SOLAR GLASS CUTTER	MR.A.C.RAMANJANE YULU
2	18Q75A0310		
3	18Q75A0311		
<b>BATCH-3</b>			
1	17Q71A0329	EXPERIMENT AND ANALYSIS OF STRAIGHT TUBE IN TUBE HEAT EXCHANGER BY COMPRESSION WITH HELICAL TUBE IN TUBE HEAT EXCHANGER	MR.K.KESAVA RAO
2	17Q71A0332		
3	17Q71A0340		
4	18Q75A0362		
5	18Q75A0373		
<b>BATCH-4</b>			
1	18Q75A0345	SMART EPIDEMIC TUNNEL	MR.V.PRADEEP KUMAR
2	17Q71A0322		
3	18Q75A0330		
4	18Q75A0369		
5	18Q75A0375		
<b>BATCH-5</b>			
1	18Q75A0322	FABRICATION OF SOLAR E-BIKE	DR.B.AVINASH BEN
2	18Q75A0324		
3	18Q75A0329		
4	18Q75A0309		
5	16Q71A0332		
<b>BATCH-6</b>			
1	18Q75A0315	HYBRIDE POWER GENERATION	DR.M.VENKATA PRAVEEN
2	18Q75A0331		
3	18Q75A0330		
4	18Q75A0337		
5	17Q71A0305		



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<b>BATCH-7</b>			
1	18Q75A0346	NUMERICAL EVOLUTION OF TEMPERATURE DISTRIBUTION AND STRESSES DEVELOPED IN RESISTANCE SPOT WELDING	MS.M.LAKSMI SRAMIKA
2	18Q75A0348		
3	18Q75A0350		
4	18Q75A0366		
5	18Q75A0371		
<b>BATCH-8</b>			
1	17Q71A0325	ASSESSMENT OF DIESEL ENGINE OPERATING CHARACTERISTICS USING NANO PARTICLES ADDED BIO-DIESEL BLEND	Mr.SK.H.SHARIF
2	17Q71A0328		
3	17Q71A0326		
4	17Q71A0324		
5	17Q71A0336		
<b>BATCH-9</b>			
1	17Q71A0319	DESIGN AND FABRICATION OF MULTIPURPOSE STAIR LIFTER	Dr.B.AVINASH BEN
2	17Q71A0316		
3	17Q71A0309		
4	17Q71A0320		
5	18Q75A0328		
<b>BATCH-10</b>			
1	18Q75A0332	FABRICATION OF SOLAR ELECTRICAL CAR	Mr.G.RAMU
2	18Q75A0340		
3	18Q75A0307		
4	18Q75A0306		

**M.TECH (CAD/CAM)**

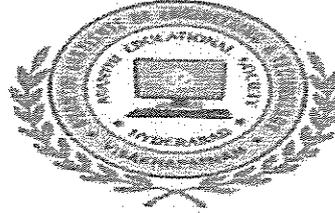
SI.NO	ROLL NO	TITLE OF THE PROJECT	PROJECT GUIDE
1	19Q71D0414	DESIGN AND ANALYSIS OF VARIOUS SPRINGS	S.H.SHARIEF



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**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project report titled " SMART EPIDEMIC TUNNEL " has been carried out by following students

G. SIVA KRISHNA	18Q75A0345
J. SAI RAM	17Q71A0322
K. PRUDHVI RAJ	17Q71A0330
N. NARENDRA	18Q75A0369
O. TEJAS KUMAR	18Q75A0375

Under the guidance of partial fulfillment of requirements for the award of the degree of Bachelor of Technology in Mechanical Engineering, Avanathi institute of engineering and Technology, Vizianagaram during the term 2017-2021.

  
Principal/ Guide

Mr. V. Pradeep Kumar  
Associate Professor

  
Head of the department

Ms. M. Lakshmi Sramika  
Professor and HOD

External Examiner



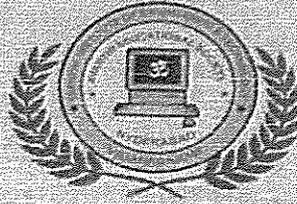
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**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project report titled "NUMERICAL EVALUATION OF TEMPERATURE DISTRIBUTION AND STRSSES DEVELOPED IN RESISTANCE SPOT WELDING" has been carried out by following students.

I.SHANMUKHA	18Q75A0346
K.KISHORE CHANDRA MOULI	18Q75A0348
K.HARISH KUMAR	18Q75A0350
M.V.AMSI KIRAN	18Q75A0366
N.V.S.J.K.NAIDU	18Q75A0371

Under the guidance of partial fulfillment of requirements for the award of the degree of Bachelor of Technology in Mechanical Engineering, Avanthi Institute of Engineering and Technology, Vizianagaram during the term 2017-2021.

*[Signature]*  
Internal Guide

Ms.M.Lakshmi sramika  
Professor and HOD

*[Signature]*  
Head of the department

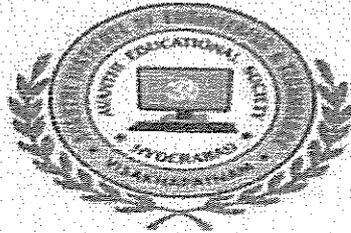
Ms.M.Lakshmi Sramika  
Professor and HOD

External Examiner



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**DEPARTMENT OF MECHANICAL ENGINEERING**



**CERTIFICATE**

This is to certify that the project report titled "**SMART EPIDEMIC TUNNEL**"  
has been carried out by following students.

<b>G. SIVA KRISHNA</b>	<b>18Q75A0345</b>
<b>J. SAI RAM</b>	<b>17Q71A0322</b>
<b>K. PRUDHVI RAJ</b>	<b>17Q71A0330</b>
<b>N. NARENDRA</b>	<b>18Q75A0369</b>
<b>O. TEJAS KUMAR</b>	<b>18Q75A0375</b>

Under the guidance of partial fulfillment of requirements for the award of the degree of Bachelor of  
Technology in Mechanical Engineering, Avanthi institute of engineering and Technology,  
Vizianagaram during the term 2017-2021.

  
Internal Guide

**Mr. V. Pradeep Kumar**  
Associate Professor

  
Head of the department

**Ms. M. Lakshmi Sramika**  
Professor and HOD

External Examiner



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**Department of Mechanical Engineering**

**Avanathi Institute of Engineering and Technology**

**Cherukupally(V),Near Tagarapuvalasa Bridge, Bhogapuram(M), Vizianagaram (Dist).**



**CERTIFICATE**

This is to certify that the project work entitled "DESIGN AND ANALYSIS OF VARIOUS SPRINGS" is a bonafide work done by

**Mr. B.LEELA SAI KUMAR (Regd. No: 19Q71D0414)**

During 2019-2021 in partial fulfillment of the requirements for the award of degree of **Master of Technology** in Mechanical Engineering, with specialization **CAD/CAM** submitted to the Department of Mechanical Engineering, Avanathi Institute of Engineering and Technology

**HOD**  
**M.LAKSHMI SRAMIKA M.Tech, (Ph.D)**  
Associate Professor

**Project Guide**  
**S.K.HIDAYATULLA SHARIEF M. Tech,Ph.D**  
Associate Professor

**EXTERNAL EXAMINER**

  
**HOD-MECH**  
**MECHANICAL DEPARTMENT**  
**AVANTHI INSTITUTE OF ENGG. & TEC**  
**Bhogapuram (M), Vizianagaram (Dist.)**

Avanathi Institute of Engineering and Technology



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Academic year: 2020-2021

Year/Sem: IV/II

**PROJECTS AND THEIR TITLES**

S.NO	PIN NUMBER	TITLE	GUIDE NAME
<b>BATCH-1</b>			
1	17Q71A0415	ENERGY EFFICIENCY IN OPTIMIZATION BY SPECTRAL EFFICIENCY MAXIMIZATION IN 5G NETWORKS	V.S.BHASKAR RAO
2	17Q71A0447		
3	17Q71A0469		
4	17Q71A0434		
5	15Q71A0479		
<b>BATCH-2</b>			
1	17Q71A0446	VARIATION TOLAREANT DIFFERENTIAL 3TSRAM CELL FOR ULTRA LOW POWER APPLICATIONS	K.SURIBABU
2	17Q71A0441		
3	18Q75A0401		
4	17Q71A0430		
<b>BATCH-3</b>			
1	18Q75A0407	SELFIE FROM LANGUAGE RECOGNIZATION WITH SHAPE ENERGY FEATURE AND ANN CLASIFIER	K.SHYAMALA
2	17Q71A0454		
3	18Q75A0409		
4	17Q71A0402		
<b>BATCH-4</b>			
1	17Q71A0463	DESIGN OF HIGH SPEED APPROXIMATE MULTIPLIER	K.AVINASH KUMAR
2	17Q71A0457		
3	17Q71A0419		
4	17Q71A0449		
<b>BATCH-5</b>			
1	17Q71A0424	WARFIELD FLYING ROBOT WITH WIRELESS CAMERA	B.SATYA SAI
2	17Q71A0431		
3	17Q71A0428		
4	17Q71A0442		
<b>BATCH-6</b>			
1	17Q71A0450	DETECTING AND CLASSIFICATION OF PLANT DISEASE USING IMAGE PROCESSING USING MULTICLASS	P.SANTOSH KUMAR
2	17Q71A0420		
3	17Q71A0466		
4	17Q71A0433		
<b>BATCH-7</b>			
1	18Q75A0405	ENERGY EFFICIENCY AND TRADE OFF IN 5G	V.SIVA BHASKAR RAO
2	17Q71A0409		
3	17Q71A0405		
4	17Q71A0422		

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S.NO	PIN NUMBER	TITLE	GUIDE NAME
<b>BATCH-8</b>			
1	17Q71A0423	RECURSIVE APPROACH TO DESIGN OF PARALLEL SELF TIMED ADDER	D.RAHUL
2	17Q71A0437		
3	17Q71A0436		
4	17Q71A0412		
<b>BATCH-9</b>			
1	18Q75A0403	DESIGN AND IMPLEMENTATION OF LOW POWER AND GLITCH FLIPFLOPS	S.SANTOSHI BHAVANI
2	17Q71A0459		
3	17Q71A0438		
4	17Q71A0410		
<b>BATCH-10</b>			
1	17Q71A0416	DESIGN A LOW POWER HIGH PERFORMANCE 2:4 AND 4:16 MIXED LOGIC LINE DECADE	P.SANTOSH KUMAR
2	17Q71A0411		
3	17Q71A0461		
4	17Q71A0429		
<b>BATCH-11</b>			
1	17Q71A0451	SATELLITE IMAGE DENOISING USING BILATERAL FILTER WITH SPGA 2.0 OPTIMIZED PARAMETERS	V.S.BHASKAR RAO
2	17Q71A0435		
3	18Q75A0404		
4	17Q71A0403		
<b>BATCH-12</b>			
1	18Q75A0406	EFFICIENT DENOISING OF 4:2 COMPRESSOR USING QUANTUM DOT CELLULAR AUTOMATA	K.AVINASH KUMAR
2	18Q75A0408		
3	17Q71A0432		
4	17Q71A0445		
<b>BATCH-13</b>			
1	17Q71A0465	DESIGN OF MICROSTRIP PATCH ANTENNA FOR 5G NETWORK USING MEMO ANTENNAS	P.SANTOSH KUMAR
2	17Q71A0439		
3	17Q71A0468		
4	17Q71A0408		
<b>BATCH-14</b>			
1	17Q71A0413	DESIGN OF MULTIPLEXER BAND ON 4R4SD ENCODING TECHNIQUE FOR DSP MULTIMEDIA APPLICATION	K.SURIBABU
2	17Q71A0427		
3	17Q71A0443		
4	17Q71A0414		
<b>BATCH-15</b>			
1	17Q71A0455	ENHANCEMENT OF PERFORMANCE AND GATES IN A CARRY LOOK A HEAD ADDER USING MGD1 TECHNIQUE	B.SATYA SAI
2	17Q71A0452		
3	17Q71A0453		
4	17Q71A0460		

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BATCH-16			
1	17Q71A0417	EFFICIENT DESIGN OF 2 BIT COMPARATOR USING QUANTUM DOT CELLULAR AUTOMATA	K.AVINASH KUMAR
2	17Q71A0440		
3	17Q71A0425		
4	17Q71A0462		



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Sample copies

**VARIATION TOLARENT DIFFERENTIAL 3T1SRAM CELL FOR  
ULTRA LOW POWER APPLICATIONS**

A Project report submitted in the partial fulfillment of the requirements

for the award of the Degree of

**BACHELOR OF TECHNOLOGY**

IN

**ELECTRONICS AND COMMUNICATION ENGINEERING**

SUBMITTED BY

**P.SWATHI (17Q71A0446)**

**P.SRINU (17Q71A0441)**

**B.RANJITH KUMAR (18Q75A0401)**

**K.AKHIL SAI (17Q71A0430)**

**T.DINESH (15Q71A04A3)**

Under the guidance of

**Mr. K.Suribabu, M. Tech**

**Assistant Professor, Department of E.C.E.**



*DEPARTMENT OF ELECTRONIC COMMUNICATION ENGINEERING  
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY*

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**Cherukupalli (V), Bhogapuram (M), Vizianagaram (Dist.), AP.**

2017-2021

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Cherukupalli (V), Bhogapuram (M), Vizianagaram (Dist.), AP.  
2017-2021



**BONAFIED CERTIFICATE**

This is to certify that project work entitled "VARIATION TOLARENT DIFFERENTIAL 3T1SRAM CELL FOR ULTRA LOW POWER APPLICATIONS" by P.Swathi(17Q71A0446), P.Srinu (17Q71A0441), B.Ranjith Kumar(18Q75A0401) ,K.Akhil Sai (17Q71A0430), T.Dinesh (15Q71A04A3) under the guidance in partial fulfillment of requirements for the award of the Degree of Bachelor of Technology in Electronics and Communication Engineering from AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY during 2017- 2021.

**Project Guide:**

Mr. K. Suribabu .  
M.Tech  
Assistant professor  
Dept. of E.C.E

**Head of the Department:**

Mr. V. Siva Bhaskar Rao,  
M.Tech, (Ph. D)  
Associate Professor  
Dept. of E.C.E

**External Examiner**

ii



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Vizianagaram -531162.

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**EFFICIENT DESIGN OF 2-BIT COMPARATOR USING  
QUANTUM-DOT CELLULAR AUTOMATA (QCA)**  
*A Project report submitted in the partial fulfillment of the requirements for  
the award of the Degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**SUBMITTED BY**

**G. KUMAR SWAMI (17Q71A0417)**

**M. QWINONES (17Q71A0440)**

**K. SHANMUKHI (17Q71A0425)**

**V. AVINASH KRISHNA VAMSI (17Q71A0462)**

Under the guidance of

**Mr. K. Avinash Kumar, M. Tech., MIEE, MISTE, (Ph.D.)**  
Associate Professor, Department of E.C.E.



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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**Cherukupalli (V), Bhogapuram (M), Vizianagaram (Dist.), AP.**

2017-2021

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**Cherukupalli (V), Bhogapuram (M), Vizianagaram (Dist.), AP.**

2017-2021



**BONAFIED CERTIFICATE**

This is to certify that project work entitled "EFFICIENT DESIGN OF 2-BIT COMPARATOR USING QUANTUM DOT AUTOMATA (QCA)" By G Kumar Swami (17Q71A0417), M Qwinones (17Q71A0440), K. Shanmukhi (17Q71A0425), V. Avinash Krishna Varasi (17Q71A0462) under my guidance in partial fulfillment of requirements for the award of the Degree of Bachelor of Technology in Electronics and Communication Engineering from AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY during 2017- 2021

**Project Guide:**

Mr. N. Srinash Kumar,  
M.Tech, MIETE, MISTE, (Ph.D.)  
Associate Professor,  
Dept. of E.C.E.

**Head of the Department:**

Mr. V. Siva Bhaskara Rao,  
B.E, M.E, (Ph. D)  
Associate Professor,  
Dept. of E.C.E.

External Examiner

Head of the Department  
Electronics & Communication Engineering  
AVANTHI INSTITUTE OF ENGG. & TECH  
Cherukupally (Vill), Bhogapuram (M)  
VIZIANAGARAM (DIST)  
HOD-ECE



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Academic year: 2020-2021

Year/Sem: IV/II

**PROJECTS AND TITLES**

S. No.	Batch Number	Roll Number	Name of the student	Title of the Project	Name of the Project Guide
1	BATCH-1	17Q71A0550	Meghana Yeturi	Capcha And Graphical Passwords	Dr. G R S Murthy
2		17Q71A0547	Majji Kalyan		
3		17Q71A0524	Daruvuri Sai Anudeep		
4		17Q71A0548	Maradana Anusha		
5	BATCH-2	17Q71A0532	Golukonda Baba Swaroopa	Currency Recognition Using Image Processing	Dr. G Satyanarayana
6		17Q71A0527	Doddi Kiran		
7		17Q71A0538	Karagani Rohith		
8		17Q71A0521	Chodi Jayasurya		
9	BATCH-3	17Q71A0530	Gari Vasu	Face Detection Using Machine Learning And Deep Learning	Mr. Y Ramesh Kumar
10		17Q71A0515	Chaganti Bhuvana Chandra		
11		17Q71A0545	Lenka Chaitanya		
12	BATCH-4	17Q71A0531	Garikina Venu Madhavi	Driver Drowsiness Detection System	Mr. K Meher Prasad
13		17Q71A0516	Chalumuri Varalakshmi		
14		17Q71A0518	Charakam Vikas		
15		17Q71A0506	Sandilya Aravalli		
16	BATCH-5	17Q71A0549	Marrapu Ramya	Iot Street Light Controlling System	Mrs. N Sakita Sri
17		17Q71A0529	Doddi Kiran		
18		17Q71A0540	Karagani Rohith		
19		17Q71A0504	Aggunna Pravalika		
20	BATCH-6	17Q71A0535	Kalidindi Anusha	Object Detection Using Sensor Flow	Mr. S Kesava Rao
21		17Q71A0505	Allu Prathyusha		
22		17Q71A0523	Dakavarapu Satya Sai Anisha		
23		17Q71A0511	Boddu Priyanka		
24	BATCH-7	17Q71A0541	Komatlapalli Dhana Sangeetha	An Automated Classroom attendance System Based On Open Cv	Mr. A Vasudeva Rao
25		17Q71A0533	Gunda Saikalyani		
26		17Q71A0501	Adapa Roshini		
27		17Q71A0526	Diddi Harika		

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28	BATCH-8	17Q71A0539	Karri Madhuri	Covid-19 Data Analysis And Visualization Using Classification Technique In Python	Mr. H Devaraju
29		17Q71A0543	Kothakota Manikanta		
30		17Q71A0522	Chukkala Vijaya Lakshmi		
31		17Q71A0520	Chitturi Sai Satya Greeshma Sri		
32	BATCH-9	17Q71A0534	Jalamana Anilkumar	A Three Layers Privacy Preserving Cloud Storage Scheme Based On Computational Intelligence In Fog Computing.	Dr. A Chandra Sekhar
33		17Q71A0503	Adari Jaya Swaroop Kumar		
34		17Q71A0519	Chekka Saliyam Raju		
35		17Q71A0567	Pasupuleti Dhana Lakshmi		
36	BATCH-10	17Q71A0590	Sowdala Meghana	Fake News Detection	Mr. Surendra Kumar Chowdhary
37		17Q71A0555	Mylapilli Bala Krishna		
38		17Q71A0593	Tangudu Neelakantam		
39	BATCH-11	17Q71A0574	Potnuru Venkata Hrushikesh	Diet Recommendation System	Mr. B Madhusudhana Rao
40		17Q71A0572	Poosapati Prudhviraaj		
41		17Q71A0578	Puppala Venu		
42		17Q71A0551	Meraka Ravindra		
43	BATCH12	17Q71A0585	Salaadhi Deeksha	Automatic Question Paper Generation	Mr. V Murali Krishna
44		17Q71A0559	Nellipudi Veeracharyulu		
45		17Q71A0556	Nammi Yamini		
46		17Q71A0591	Surisetty Janaki Ram Sai Sampath		
47	BATCH-13	17Q71A0576	Pudi Sai Teja	Leaf Disease Detection	Mrs.V.Sharada
48		17Q71A0566	Panigrahi Suresh		
49		17Q71A0582	Rongali Sridevi		
50		17Q71A0579	Putluri Sireesha		
51	BATCH-14	17Q71A0586	Sanapati Triveni	Phishing Email Detection Using Improved Renn Model With Multi	Mrs A Swathi
52		17Q71A0583	Routhu Rajesh		
53		17Q71A0587	Sarita Kumari		
54		17Q71A0596	Thotakura Gopi		

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				Level Vectors And Attention	
55	BATCH-15	17Q71A0592	Tammina Kavya Sai	Evaluation Of Academic Performance Using Fuzzy Logic	Mr. M Jayaram
56		17Q71A0598	Vaddiraju Janaki Ramana		
57		17Q71A0580	Rayala Bharath		
58		17Q71A0554	Moyyi Appala Naidu		
59	BATCH-16	17Q71A0570	Pilla Neelima	An Automatic System To Facial Mask Detection In Smart City Network	Dr. A.Chandra Sekhar
60		17Q71A0573	Potnuru Nani Manikanth		
61		17Q71A0597	Uppala Hashini		
62		17Q71A0594	Thathatisetti Manoj Sai		
63	BATCH-17	17Q71A0553	Mirtivada Sneha	Chatbot Application Based On User Input Using Lstm(College)	Mrs. Ch Sravanthi
64		17Q71A0577	Pudu Sandhya		
65		17Q71A0569	Pedakota Kumar Sai		
66		17Q71A0571	Pinnamareddy Sai Praveen Krishna		
67	BATCH-18	17Q71A0560	Nikkala Chakradhar	Cyberbullying Detection	Mrs. P Monika
68		17Q71A0568	Patnala Veera Venkata Satish		
69		17Q71A0552	M Sai Manohar		
70		17Q71A0563	Pachilla Saranya		
71	BATCH-19	17991A0518	Chintada Surya Mounika	Image Recognition Using Ocr	Dr. A Balakrishn a
72		17Q71A0561	Nolli Sirisha		
73		17Q71A0584	Sadi Prathyusha Reddy		
74		17Q71A0562	Ommi Naveen Sandeep		
75	BATCH-20	17Q71A0595	Thene Dhana Sai	Analysis Of Women Safety On Social Media	Mr. P Ravikumar
76		17Q71A0582	Rongali Sridevi		
77		17Q71A0558	Nelaparathi Chindu		
78		17Q71A0599	Vobhilineni Suryadev		

**M.TECH (CSE)**

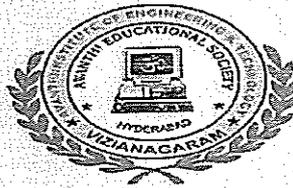
SI.NO	ROLL NO	TITLE OF THE PROJECT	PROJECT GUIDE
1	19Q71D5806	Noval Approach To Transmit A Secret Image Using Visual Cryptography	Mr.V.Murali Krishna



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Dist-531162 Andhra Pradesh, India  
(2018-2022)  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



**CERTIFICATE**

This is to certify that the project report entitled "FOOD FOR NEEDY" being submitted by N. Tejaswini (18Q71A0562), G. Saranya (18Q71A0524), Y. Neeraja (18Q71A05A7), Y.V Sriram (18Q71A05A3) in partial award of fulfillment for the award of the degree of Bachelor of technology in Computer Science and Engineering to the Avanathi Institute of Engineering and Technology is a record of bonafied work under my guidance and supervision. The results embedded in this project report have not been submitted to any other university or any other Institute for the award of any Degree or Diploma

Project Guide  
*[Signature]*  
Lavanya  
Assistant professor, M.Tech  
Department of CSE  
AIET, JNTUK

*[Signature]*  
Head of the Department  
Dr.P.Dinesh Chandra  
Associate Professor  
Department of CSE  
AIET, JNTUK

EXTERNAL EXAMINER



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**CHERUKUPALLY (V), NEAR TAGARAPUVALSA BRIDGE,  
VIZIANAGARAM (DIST)- 531 162, ANDHRA PRADESH, INDIA  
(2018 – 2022)**



**CERTIFICATE**

This is to certify that the project report entitled " DETA-X  
DETECTING COVID-19 USING X-RAY " is being submitted by S.  
Ramya Sree, Priyanka Singh, Oliver Sam, K. Jaswitha, B. Sri Nandini in  
partial fulfilment of the academic requirements for the award of the degree  
of Bachelor of Technology in Computer Science and Engineering from  
AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY  
(Affiliated to JNTUK), Tagarapuvalsa, Vizianagaram during the year 2018-  
2022.

*K. Meher Prasad*

**Project Guide  
K. MEHER PRASAD**

Associative professor

Department of CSE,  
Avanthi Institute of Engg & Tech  
JNTU (Kakinada)

*P. Dinesh Chandra*

**Head of The Department  
P. DINESH CHANDRA, M.TECH**

HOD-Associative professor

Department of CSE,  
Avanthi Institute of Engg & Tech  
JNTU (Kakinada)

**EXTERNAL EXAMINER** \_\_\_\_\_



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**DETA-X DETECTING COVID-19 USING X-RAY**

A Project Report submitted in partial fulfilment of the requirement of the award of degree of  
**BACHELOR OF TECHNOLOGY**

IN

**COMPUTER SCIENCE AND ENGINEERING**

(2018-2022)

By

S. RAMYA SREE

(18Q71A0551)

PRIYANKA SINGH

(18Q71A0576)

OLIVER SAM

(18Q71A0549)

K. JASWITHA

(18521A0519)

B. SRI NANDINI

(17Q71A0513)

Under the esteemed guidance of

**Mr. K. Meher Prasad**

Associative Professor

Department of CSE



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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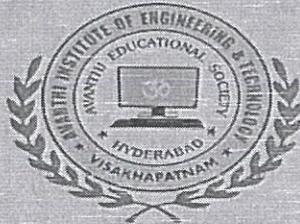
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VIZIANAGARAM(DIST)- 531 162, ANDHRA PRADESH, INDIA.**



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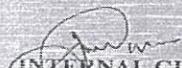
**M.Tech (CSE)**

**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**CHERUPALLI, VIZIANAGARM DISTRICT (A.P.)**

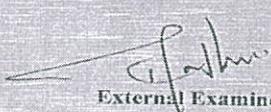


**BONAFIDE CERTIFICATE**

This is to certify that the project report entitled "NOVEL APPROACH TO TRANSMIT A SECRET IMAGE USING VISUAL CRYPTOGRAPHY", being submitted by TYADI SAKTHI SWAROOP, bearing Regd.No : 19Q71D5806 in partial fulfillment for the award of degree of Master of Technology in Computer Science and Engineering, to the Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him.

  
**INTERNAL GUIDE**  
Mr. V. Murali Krishna  
Assistant Professor  
Department of CSE

  
**HEAD OF THE DEPARTMENT**  
Dr. A. Chandra Sekhar  
Professor & HOD  
Department of CSE

  
External Examiner

**Head of the Department**  
**Computer Science and Engineering**  
**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**HOD-CSE**  
Cherukupally (V), Chittivalasa (SAO),  
Bhogapuram (M), Vizianagaram(D)-531162



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**DEPARTMENT OF MASTER OF STUDIES**

Academic year: 2020-2021

Year/Sem: II/I

**PROJECTS AND TITLES**

S.No	ROLL NO	NAME OF THE STUDENT	PROJECT TITLE
1	19Q71E0001	Allada Nagamani	A Study On Inventory Management
2	19Q71E0002	Anilkumar Boora	A Study On Effective Communication
3	19Q71E0004	Atchi Gowthami	A Study On Training And Development
4	19Q71E0005	Atmakuri Raju	A Study On promotional Activities
5	19Q71E0006	Attada Pavitra	A Study On Ratio Analysis
6	19Q71E0007	Bangaru Santoshi Kumari	A Study On A Study On Recruitment And Selection
7	19Q71E0008	Barri Jyothi Venkata Sravani	A Study On Training And Development
8	19Q71E0009	Bayyavarapu Dhanalakshmi	A Study On Selection And Recruitment
9	19Q71E0010	Behera Santosh Kumar	A Study On Sale Potential
10	19Q71E0011	Bhushana Prasanthi	A Study On Mutual Funds Performance
11	19Q71E0013	Buddala Sri Devi	A Study On Performance Appraisal
12	19Q71E0014	Chappa Praveen Kumar	A Study On Working Capital Management
13	19Q71E0015	Chellumahanthi Jeevitha	A Study On Promotional Activities
14	19Q71E0016	Chintala Srikanth	A Study On Sales Promotional Activity
15	19Q71E0017	Chintapalli Hanumanta Manikanta Raviteja	A Study On Working Capital Management
16	19Q71E0018	Chinthapalli Jeevan Paul	A Study On Inventory Management
17	19Q71E0019	Chukka Sandhyarani	A Study On Portfolio Management
18	19Q71E0020	D Sarat Chandra Reddy	A Study On Employee's Motivation And Satisfaction
19	19Q71E0021	D Shyamala	A Study On Trade Union
20	19Q71E0022	Dalasari Krishnam Raju	A Study On Working Capital Management

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21	19Q71E0023	Eerugula Rajeswari	A Study On Capital Budgeting
22	19Q71E0026	Dokala Bhargavi	A Study On Ratio Analysis
23	19Q71E0027	Deevi Parvathi	A Study On Cash Folw Statement
24	19Q71E0028	Sirigidi Murali Krishna	A Study On Working Capital Management
25	19Q71E0029	Gandi Satyaveni	A Study On Training And Development
26	19Q71E0030	Gembali Shanmukha Rao	A Study On Inventory Management
27	19Q71E0031	Golthi Satya Bhagya Sree	A Study On Employee Welfare
28	19Q71E0032	Gorapalli Kanakamahalakshmi	A Study On Performance Appraisal
29	19Q71E0034	Gudla Priyanka	A Study On Employee Job Satisfaction
30	19Q71E0035	Gummella Naveen	A Study On Job Satisfaction
31	19Q71E0037	Himakumar Binnala	A Study On Sales And Pomotion
32	19Q71E0038	Indraganti Sai Akhil	A Study On Working Capital
33	19Q71E0039	Jillella Usha Rani	A Study On Training And Development
34	19Q71E0040	K Kalyan Kumar	A Study On Employce Satisfaction
35	19Q71E0041	K Priyanka	A Study On Performance Appraisal
36	19Q71E0042	Karnapu Sai Lakshmi	A Study On Employee Welfare Measures
37	19Q71E0043	Kartala Laxmanarao	A Study On Trainng And Development
38	19Q71E0044	Karubothu Lavanya	A Study On Financial Performance Analysis
39	19Q71E0045	Kayitha Devi	A Study On Training And Development
40	19Q71E0046	Kola Vara Prasada Rao	A Study On Performance Appraisal
41	19Q71E0047	Kotibani Sowmya	A Study On Distribution Channel
42	19Q71E0048	Koyya Saraswathi	A Study On Employee Welfare Measures
43	19Q71E0049	Kuriti Raveendra	A Study On Performance Appraisal
44	19Q71E0050	Lanka Lakshmi Divyasai	A Study On Wage And Salary Administration
45	19Q71E0051	Lekkala Sunny Sunil Kumar	A Study On Capital Structure

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46	19Q71E0052	Madugula Kishore	A Study On Training And Development
47	19Q71E0053	Marrapu Priyanka	A Study On Industrial Marketing Mix
48	19Q71E0056	Merigi Sravani	A Study On Employee Job Satisfaction
49	19Q71E0057	Mokka Nalini Kanaka	A Study On Inventory Management
50	19Q71E0058	Nagireddi Kishore	A Study On A Study On Ratio Analysis
51	19Q71E0059	Naidana Mahesh	A Study On Training And Development
52	19Q71E0060	Nakka Rama Krishna	A Study On Job Satisfaction
53	19Q71E0063	Neyigapula Venkatesh	A Study On Performance Appraisal
54	19Q71E0064	Omkar Abhishek Behera	A Study On Inventory Management
55	19Q71E0065	Pachigulla Suresh	A Study On Training And Development
56	19Q71E0070	Pampani Jaya Siva Durga Bhavani	A Study On Training And Development
57	19Q71E0071	Pandrinku Vinay Kumar	A Study On Financial Performance Analysis
58	19Q71E0073	Pathan Roufi	A Study On Employee Welfare
59	19Q71E0074	Pathi Usha Ratnam	A Study On Capital Budgeting
60	19Q71E0075	Pedada Polinaidu	A Study On Portfolio Evaluation Mutual Fund Analysis Of Risk And Return
61	19Q71E0076	Pedapati Seshagiri	A Study On Working Capital
62	19Q71E0078	Pilla Naresh	A Study On Ratio Analysis
63	19Q71E0079	Potlada Santhosh Kumar	A Study On Working Capital
64	19Q71E0080	Pragada Sekhar	A Study On Training And Development
65	19Q71E0081	Pudi Kiran Kumar	A Study On Financial Performance And Financial Analysis
66	19Q71E0082	Pulaparathi Vandana	A Study On Working Capital
67	19Q71E0083	Ramineedi Venkata Ramanujam	A Study On Performance Appraisal
68	19Q71E0084	Reddy Sai	A Study On Ratio Analysis
69	19Q71E0085	Sadasivuni Prasuna	A Study On Industrial Relations
70	19Q71E0086	Sai Karthik	A Study On Labour Welfare
71	19Q71E0088	Seediri Nagandra	A Study On Employee Job

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			Satisfaction
72	19Q71E0089	Shaik Nagoor Beebi	A Study On Training And Development
73	19Q71E0090	G Kartik	A Study On Ratio Analysis
74	19Q71E0091	Sodipilli Bhanuprakash	A Study On Mutual Funds
75	19Q71E0095	Suvvada Nagamani	A Study On Working Capital
76	19Q71E0096	Tamarapalli Krupadevi	A Study On Budget & Budgetory Control
77	19Q71E0098	Tedlapu Atchutha Rao	A Study On Employee Trining Activities
78	19Q71E00A1	Vaddadi Krishna Veni	A Study On Job Satisfaction
79	19Q71E00A2	Valisetti Kamala	A Study On Performance Appraisal
80	19Q71E00A3	Vanamu Bhanu	A Study On Working Capital Management
81	19Q71E00A6	Varanasi Manikanta	A Study On Quality Of Work Life
82	19Q71E00A7	Vemakoti Ramakrishna Sai	A Study On Inventory Management
83	19Q71E00A8	Vemula Malathi	A Study On Portfolio Management
84	19Q71E00A9	Vysyaraju Navya	A Study On Working Capital
85	19Q71E00B0	Yalakala Aruna	A Study On Labour Welfare
86	19Q71E00B1	Yarabati Swathi	A Study On Selection And Recuriment
87	19Q71E00B3	Yejjipurapu Arun Kumar	A Study On Welfare Measures
88	19Q71E00B5	Podili Parvatha Ananthalakshmi	A Study On Performnce Appraisal
89	19Q71E00B6	Gara Hemanth Kumar Patnaik	A Study On Job Satisfaction
90	19Q71E00B7	Chudamani Kondra	A Study On Welfare Amenities
91	19Q71E00B8	Maram Prasanna Reddy	A Study On Employee Recruitment And Selection
92	19Q71E00C1	Behara Udaya Sri	A Study On Performance Appraisal



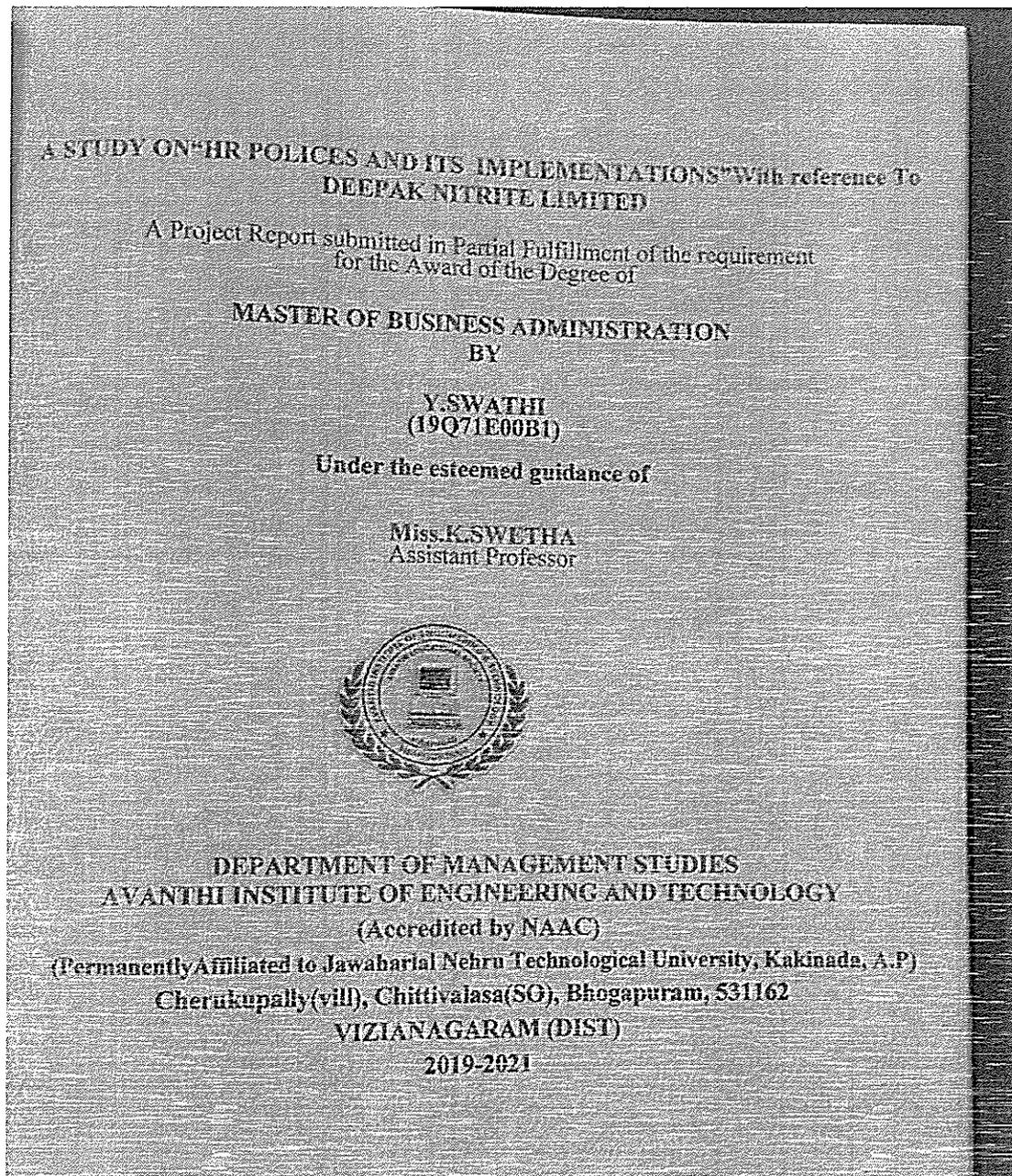
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Sample copies





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**A STUDY ON "TRAINING AND DEVELOPMENT"**

With reference  
to

**BHARAT HEAVY ELECTRICALS LIMITED., Visakhapatnam**

*A Project Report submitted In Partial Fulfillment of the requirement  
for the Award of the Degree of*

**MASTER OF BUSINESS ADMINISTRATION**

by

**N. RAMA KRISHNA**  
(19Q71E0060)

Under the esteemed guidance of

**Mrs. S. P. SANTOSHI**  
Assistant Professor



**DEPARTMENT OF MANAGEMENT STUDIES**  
**AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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(Permanently Affiliated to Jawaharal Nehru Technological University, Kakinada, A.P)

Cherukupally(vill), Chittivalasa(SO), Bhogapuram, 531162

**VIZIANAGARAM (DIST)**

**2019-2021**

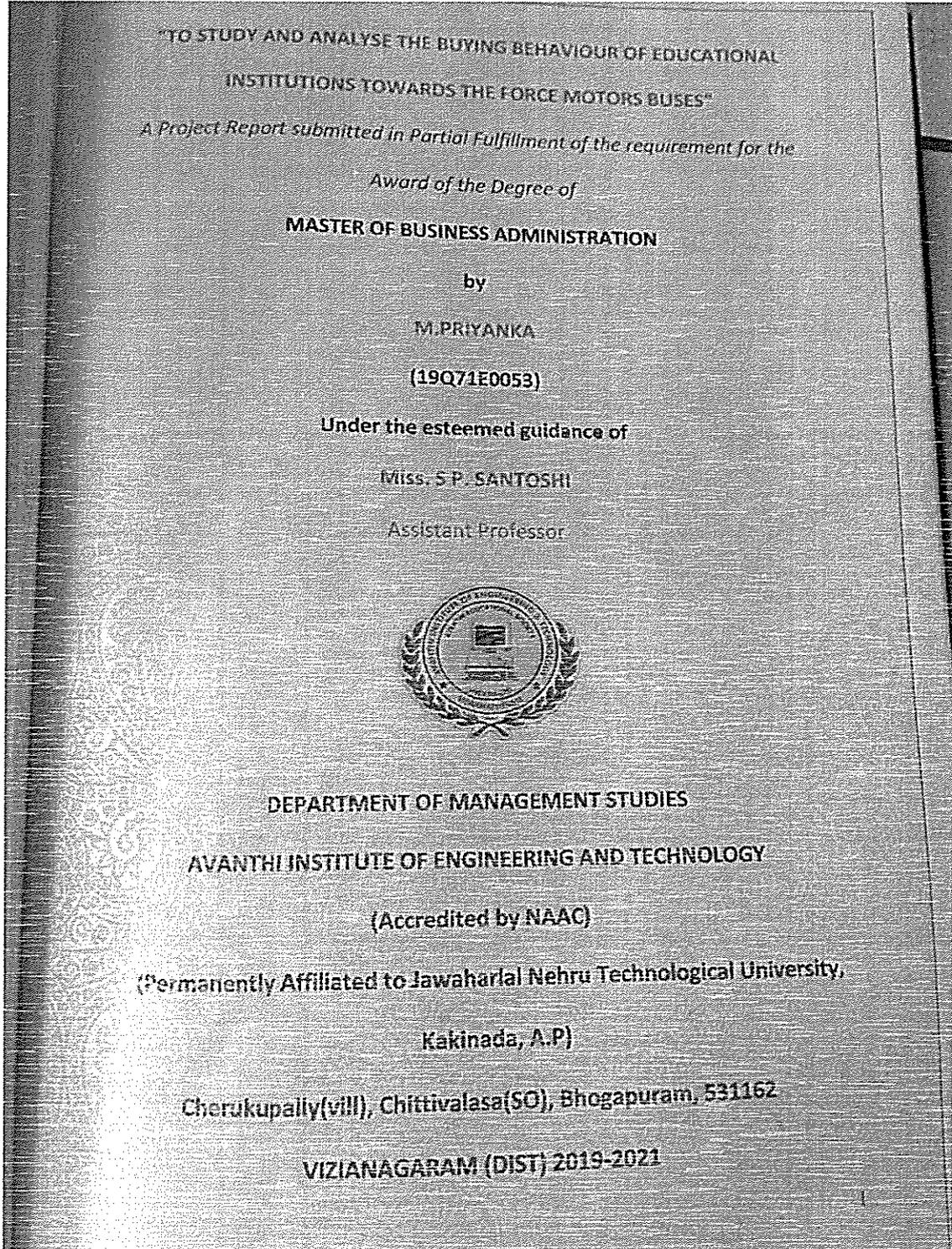


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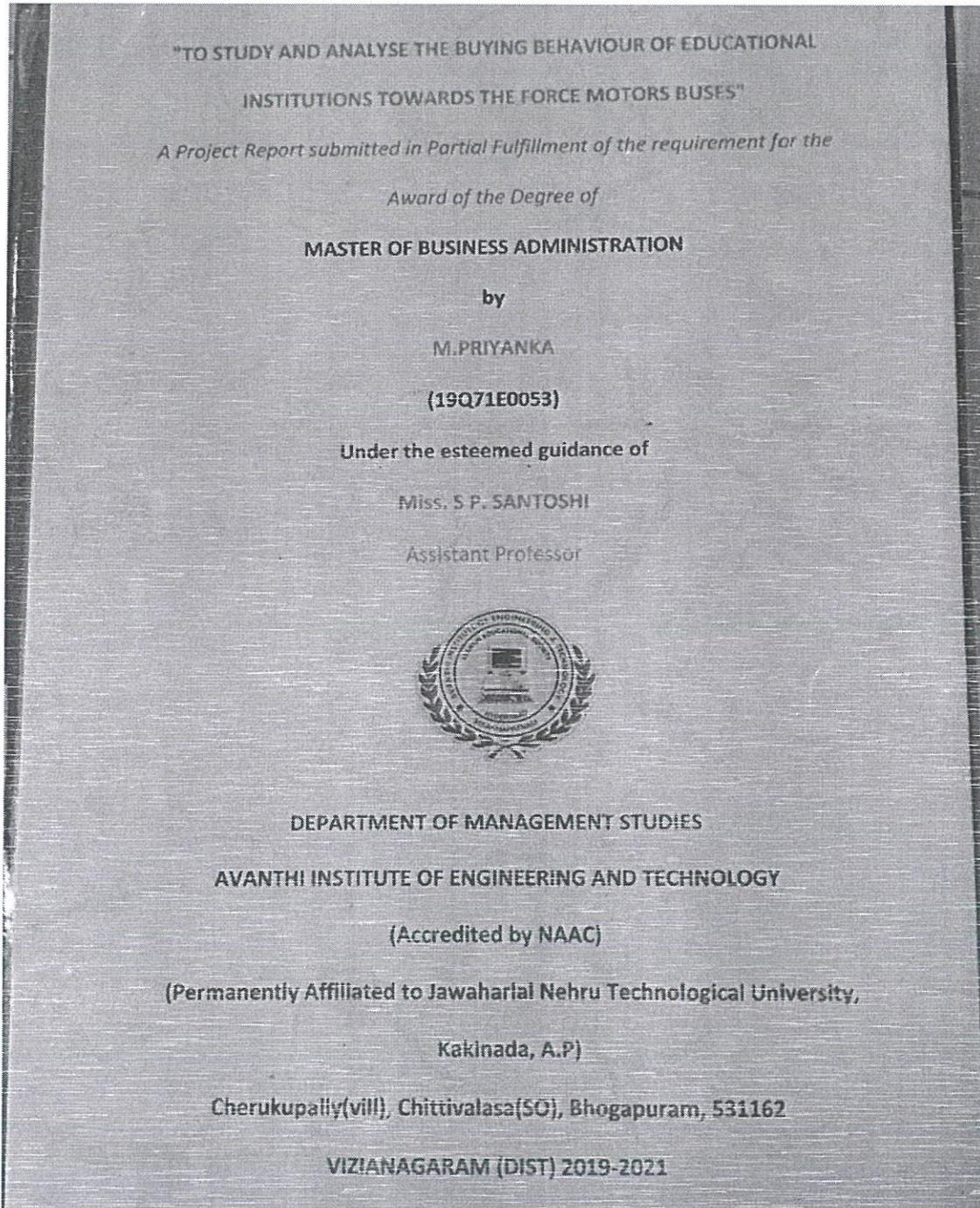


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Head of the Department  
Master of Business Administration  
HOD, MBA  
Avanathi Institute of Engineering and Technology  
Cherukupally (V), Bhogapuram (M)  
VIZIANAGARAM (DIST)



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#### **b. Participative learning**

1. Industrial / field visits / internship at Industry and/or renowned institutions are mandatory.
2. Participation in professional societal activities of IETE, etc. are currently mandatory.
3. Students are involving group discussion and also seminar presentation in very course related topics.
4. Students are encouraged and presently made mandatory to take Online Courses offered by premier institutions of the country.
5. Each course handling conducting Quiz, Debate for the sharing of the student technical knowledge.
6. Industry projects and collaborations are undertaken to enrich students with pre-employment training.
7. Periodical Guest lectures on topics relevant to employment skills by personnel from respective organizations / industry.

#### **Participative learning**

- Seminars
- Group discussion
- Professional activities



**SEMINARS**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**SEMINARS**

Department of Civil Engineering has conducted seminar on each subject by student to enhance and upgrade the student's presentation skill. This activity will help the student publicly demonstrate their skills & helps them to use their skill.

These seminars will enhance the knowledge of the students. For the improvement in the level of understanding and to develop insight in various subjects, seminars are organized for the learners in all academic years.

**Year wise subject list for seminar:**

Class: B. Tech II Year	
SI.NO	SUBJECT NAME
1	Transportation Engineering -II
2	Strength of Materials -II
3	Hydraulics & Hydraulic Machinery
4	Surveying & Geometrics

Class: B. Tech III Year	
SI.NO	SUBJECT NAME
1	Design and Drawing of Steel Structures
2	Geotechnical Engineering -I
3	Environmental Engineering -I
4	Water Resource Engineering -I

Class: B. Tech IV Year	
SI.NO	SUBJECT NAME
1	Estimation, Specification & Contracts
2	Construction Technology and Management
3	Pre-Stressed Concrete
4	Geotechnical Engineering -II



Class: II-B. Tech -II Sem

SI. NO	DATE	ROLL NO.	NAME		SEMINAR TOPIC	FACULTY INCHARGE
1	3/5/2021	19Q71A0101	Ch.Saraswathi	Surveying & Geometrics	Theodolite	R.Rohith
2	24/06/2021	19Q71A0102	Ch.Pandhi	Transportation Engineering -II	Super Elevation	P.Pallavi
3	8/5/2021	19Q71A0104	G.Mithun Krishnan	Strength of Materials -II	Torsion	M.Sumathi
4	2/7/2021	19Q71A0109	M.Guna Shekhar	Hydraulics & Hydraulic Machinery	Fluid Statics	K.Anil
5	5/5/2021	19Q71A0110	O.Pavan Kumar	Transportation Engineering -II	Importance of IRC	P.Pallavi
6	1/7/2021	19Q71A0111	P.Lokesh	Surveying & Geometrics	AutoCAD	R.Rohith
7	12/5/2021	19Q71A0115	V.Anusha	Transportation Engineering -II	Docks & Harbours	P.Pallavi
8	26/6/2021	20Q75A101	B.Vijay Kumar	Hydraulics & Hydraulic Machinery	Fluid Dynamics	K.Anil
9	8/5/2021	20Q75A102	S.Ramya Sri	Strength of Materials -II	Shear Force And Bending Moment	M.sumathi
10	2/7/2021	20Q75A103	M.Rakesh Kuamar Reddy	Surveying & Geometrics	Levelling	R.Rohith
11	5/5/2021	20Q75A105	M.Manikanta	Strength of Materials -II	Springs	M.sumathi
12	26/6/2021	20Q75A106	M.Satyanarayana	Hydraulics & Hydraulic Machinery	Centrifugal pump	K.Anil

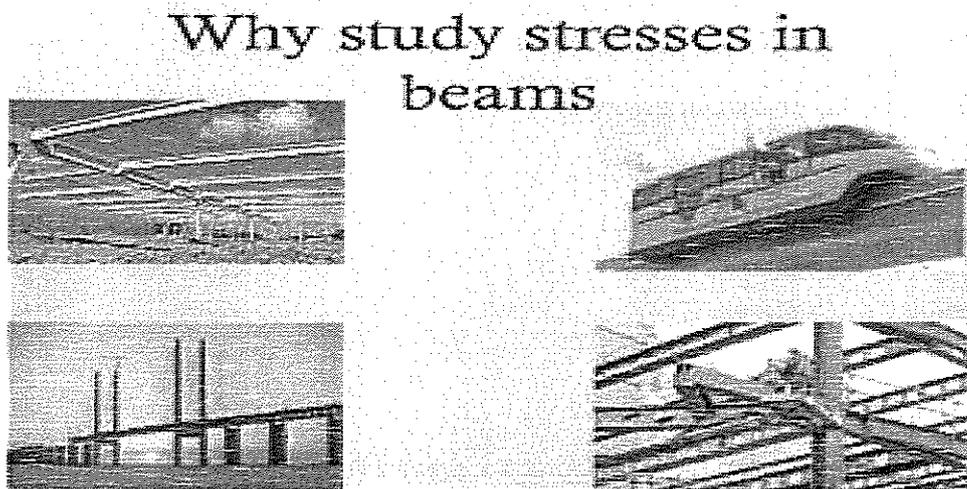


Subject Name: Strength of Materials-II

Academic Year:2020-2021

Class: II-B. Tech-II Sem

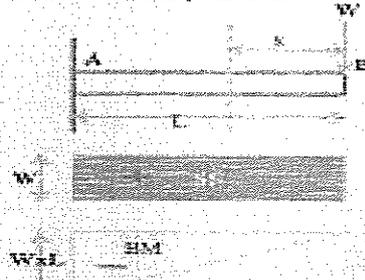
Snapshot-1



Snapshot-2

## SF and BM formulas

Cantilever with point load



$F_x$  = Shear force at X  
 $M_x$  = Bending Moment at X

$$F_x = -W$$

$$M_x = Wx$$

at  $x=0 \Rightarrow M_x=0$   
at  $x=L \Rightarrow M_x=WL$



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Seminars**

Department of Electrical Engineering has conducted seminar on each subject by student to enhance and upgrade the student's presentation skill. This activity will help the student publicly demonstrate their skills & Helps them to use their skill.

These seminars will enhance the knowledge of the students. For the improvement in the level of understanding and to develop insight in various subjects, seminars are organized for the learners in all academic years.

**Year wise subject list for seminar:**

<b>Class:B.Tech II Year</b>	
<b>SL.NO</b>	<b>SUBJECT NAME</b>
1	Electrical Measurements & Instrumentation
2	Electrical Machines-II
3	Control Systems
4	Power Systems-I

<b>Class:B.Tech III Year</b>	
<b>SL.NO</b>	<b>SUBJECT NAME</b>
1	Power Electronic Controllers & Drives
2	Power System Analysis
3	Energy Audit and Conservation & Management
4	Micro Processors and Micro controllers

<b>Class:B.Tech IV Year</b>	
<b>SL.NO</b>	<b>SUBJECT NAME</b>
1	Digital Control Systems
2	HVDC Transmission
3	Electrical Distribution Systems
4	Flexible Alternating Current Transmission Systems



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**SEMINAR**

**Class:II-B.Tech.-II Sem**

SL.N O	DATE	ROLL NO.	NAME	SUBJECT	SEMINAR TOPIC	FACULTY INCHARGE
1	03-05- 2021	19Q71A0 212	Sadaram. Mohan Kireeti	Electrical asurements & Instrumentat ion	PMMC, moving iron type Construction,	A.Arjuna Rao
2	24-06- 2021	19Q71A0 213	Oruganti Naga Durga Prasad	Electrical Machines-II	Production of rotating magnetic field	V.Sudhakar
3	08-05- 2021	19Q71A0 215	Marada Harika	Control Systems	Open loop and Closed loop control systems	B.Anand Swaroop
4	02-07- 2021	20Q75A0 203	Bavirisetty Neelima	Power Systems-I	general layout of a thermal power plant	M.Venkatesh
5	05-05- 2021	20Q75A0 204	Gedala Joseph Thambi	Electrical Measureme nts & Instrumentat ion	Electrostatic instruments Construction,	A.Arjuna Rao
6	01-07- 2021	20Q75A0 205	Gudapati Raja Ratna Kumar	Electrical Machines-II	Torque slip characteristic	V.Sudhakar
7	12-05- 2021	20Q75A0 209	Kanamata Eswara Rao	Control Systems	time response of first and second order systems	B.Anand Swaroop
8	26-06- 2021	20Q75A0 219	Thokala Saitharun	Power Systems-I	substations layouts of 33/11 kV	M.Venkatesh
9	08-05- 2021	20Q75A0 222	Vummidi Purna Durga Prasad	Electrical Measureme nts & Instrumentat	Torque equation,	A.Arjuna Rao

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10	02-07-2021	20Q75A0 223	Yeduru Dileep Kumar	Electrical Machines-II	Methods of starting	V.Sudhakar
11	05-05-2021	20Q75A0 229	Gudivada Ramya	Control Systems	The concept of stability	B.Anand Swaroop
12	26-06-2021	20Q75A0 237	Sornapudi Bhargavi	Power Systems-I	different types of gas insulated substations	M.Venkatesh



Subject Name: Electrical Machines-II

Academic Year:2020-2021

Snapshot-1

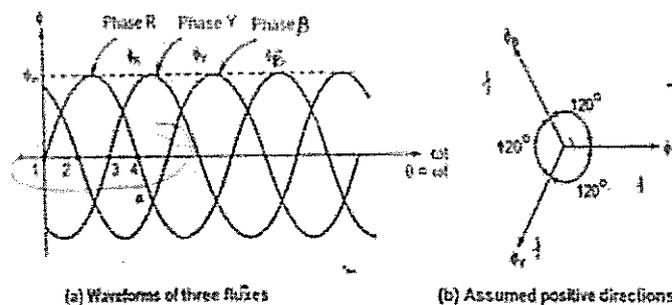
Production Of RMF:

- The three phase windings are displaced from each other by  $120^\circ$  e. The windings are supplied by a balanced three phase ac supply.
- The three phase currents flow simultaneously through the windings and are displaced from each other by  $120^\circ$  electrical.
- Each alternating phase current produces its own flux which is sinusoidal. So all three fluxes are sinusoidal and are separated from each other by  $120^\circ$ .
- If the phase sequence of the windings is R-Y-B, then mathematical equations for the instantaneous values of the three fluxes  $\Phi_R$ ,  $\Phi_Y$ ,  $\Phi_B$  can be written as,
  - $\Phi_R = \Phi_m \sin(\omega t)$
  - $\Phi_Y = \Phi_m \sin(\omega t - 120^\circ)$
  - $\Phi_B = \Phi_m \sin(\omega t - 240^\circ)$

< 4 of 9 >

Snapshot-2

As windings are identical and supply is balanced, the magnitude of each flux is  $\Phi_m$ .



< 5 of 9 >



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**Subject Name: Electrical Machines-II**

**Class : II-B.Tech-II Sem**

**Academic Year:2020-2021**

**ONLINE ATTENDANCE**

Sl.NO	REGD.NO.	3/5/2021	24/6/2021	8/5/2021	2/7/2021
1	19Q71A0203	ATTENDED	ATTENDED	ATTENDED	ATTENDED
2	19Q71A0204	ATTENDED	ATTENDED	ATTENDED	ATTENDED
3	19Q71A0205	ATTENDED	ATTENDED	ATTENDED	ATTENDED
4	19Q71A0206	ATTENDED	ATTENDED	ATTENDED	ATTENDED
5	19Q71A0208	ATTENDED	ATTENDED	ATTENDED	ATTENDED
6	19Q71A0209	ATTENDED	ATTENDED	ATTENDED	ATTENDED
7	19Q71A0210	ATTENDED	ATTENDED	ATTENDED	ATTENDED
8	19Q71A0211	ATTENDED	ATTENDED	ATTENDED	ATTENDED
9	19Q71A0212	ATTENDED	ATTENDED	ATTENDED	ATTENDED
10	19Q71A0214	ATTENDED	ATTENDED	ATTENDED	ATTENDED
11	19Q71A0215	ATTENDED	ATTENDED	ATTENDED	ATTENDED
12	20Q75A0201	ATTENDED	ATTENDED	ATTENDED	ATTENDED
13	20Q75A0202	ATTENDED	ATTENDED	ATTENDED	ATTENDED
14	20Q75A0203	ATTENDED	ATTENDED	ATTENDED	ATTENDED
15	20Q75A0204	ATTENDED	ATTENDED	ATTENDED	ATTENDED
16	20Q75A0205	ATTENDED	ATTENDED	ATTENDED	ATTENDED
17	20Q75A0206	ATTENDED	ATTENDED	ATTENDED	ATTENDED
18	20Q75A0207	ATTENDED	ATTENDED	ATTENDED	ATTENDED
19	20Q75A0208	ATTENDED	ATTENDED	ATTENDED	ATTENDED
20	20Q75A0209	ATTENDED	ATTENDED	ATTENDED	ATTENDED
21	20Q75A0210	ATTENDED	ATTENDED	ATTENDED	ATTENDED
22	20Q75A0211	ATTENDED	ATTENDED	ATTENDED	ATTENDED
23	20Q75A0212	ATTENDED	ATTENDED	ATTENDED	ATTENDED
24	20Q75A0213	ATTENDED	ATTENDED	ATTENDED	ATTENDED
25	20Q75A0214	ATTENDED	ATTENDED	ATTENDED	ATTENDED
26	20Q75A0215	ATTENDED	ATTENDED	ATTENDED	ATTENDED
27	20Q75A0216	ATTENDED	ATTENDED	ATTENDED	ATTENDED
28	20Q75A0217	ATTENDED	ATTENDED	ATTENDED	ATTENDED
29	20Q75A0218	ATTENDED	ATTENDED	ATTENDED	ATTENDED
30	20Q75A0219	ATTENDED	ATTENDED	ATTENDED	ATTENDED
31	20Q75A0220	ATTENDED	ATTENDED	ATTENDED	ATTENDED
32	20Q75A0221	ATTENDED	ATTENDED	ATTENDED	ATTENDED



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**Subject Name: Strength of Materials -I**

**Academic Year: 2020-2021**

**Class: II-B. Tech-II Sem**

Sl.NO	REGD.NO.	3/5/2021	24/6/2021	8/5/2021	2/7/2021
1	19Q71A0101	ABSENTT	ABSENTT	ABSENTT	ABSENTT
2	19Q71A0102	ATTENDED	ATTENDED	ATTENDED	ATTENDED
3	19Q71A0103	ATTENDED	ATTENDED	ATTENDED	ATTENDED
4	19Q71A0104	ATTENDED	ABSENTT	ATTENDED	ATTENDED
5	19Q71A0105	ATTENDED	ATTENDED	ATTENDED	ATTENDED
6	19Q71A0106	ATTENDED	ATTENDED	ATTENDED	ATTENDED
7	19Q71A0107	ATTENDED	ATTENDED	ATTENDED	ATTENDED
8	19Q71A0108	ATTENDED	ATTENDED	ATTENDED	ATTENDED
9	19Q71A0109	ATTENDED	ATTENDED	ATTENDED	ATTENDED
10	19Q71A0110	ATTENDED	ABSENTT	ATTENDED	ATTENDED
11	19Q71A0111	ATTENDED	ATTENDED	ATTENDED	ATTENDED
12	19Q71A0112	ATTENDED	ATTENDED	ATTENDED	ATTENDED
13	19Q71A0114	ATTENDED	ATTENDED	ATTENDED	ATTENDED
14	19Q71A0115	ATTENDED	ATTENDED	ABSENTT	ATTENDED
15	20Q75A101	ATTENDED	ATTENDED	ATTENDED	ATTENDED
16	20Q75A102	ATTENDED	ATTENDED	ATTENDED	ATTENDED
17	20Q75A103	ABSENTT	ATTENDED	ATTENDED	ATTENDED
18	20Q75A104	ATTENDED	ATTENDED	ATTENDED	ATTENDED
19	20Q75A105	ATTENDED	ATTENDED	ATTENDED	ATTENDED
20	20Q75A106	ATTENDED	ABSENTT	ATTENDED	ATTENDED
21	20Q75A107	ABSENTT	ABSENTT	ABSENTT	ABSENTT
22	20Q75A108	ATTENDED	ATTENDED	ATTENDED	ATTENDED
23	20Q75A109	ATTENDED	ATTENDED	ATTENDED	ATTENDED

*R. Venkatesh*  
HOD-CIV



**DEPARTMENT OF MECHANICAL ENGINEERING**

**Seminars**

Department of Mechanical Engineering has conducted seminar on each subject by student to enhance and upgrade the student's presentation skill. This activity will help the student publicly demonstrate their skills & Helps them to use their skill.

These seminars will enhance the knowledge of the students. For the improvement in the level of understanding and to develop insight in various subjects, seminars are organized for the learners in all academic years.

**Year wise subject list for seminar:**

<b>Class:B.Tech II Year</b>	
<b>SI.NO</b>	<b>SUBJECT NAME</b>
1	Thermodynamics
2	Mechanics of solids
3	Fluid Mechanics & Hydraulic Machines
4	Metal Cutting & Machine Tools

<b>Class:B.Tech III Year</b>	
<b>SI.NO</b>	<b>SUBJECT NAME</b>
1	Thermal Engineering -II
2	Instrumentation & Control Systems
3	Refrigeration & Air-conditioning
4	Industrial Robotics

<b>Class:B.Tech IV Year</b>	
<b>SI.NO</b>	<b>SUBJECT NAME</b>
1	Mechatronics
2	Additive Manufacturing
3	Automobile Engineering
4	Non Destructive Evaluation



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**DEPARTMENT OF MECHANICAL ENGINEERING**

**SEMINARS**

Class:II-B.Tech.-II Sem

SI. NO	DATE	ROLL NO.	NAME	SUBJECT	SEMINAR TOPIC	FACULTY INCHARGE
1	03-05-2021	19Q71A0318	Kalluru Mukesh Kumar	Thermodynamics	Thermodynamics Cycles	S.H.Sharief
2	24-06-2021	19Q71A0343	Sanka Sai Kiran	Mechanics Of Solids	Simple Stresses & Strains	V.Pradeep
3	08-05-2021	19Q71A0346	Thandrangi Uma Maheshwara Rao	Fluid Mechanics & Hydraulic Machines	Fluid Statics	Dr.Avinash Ben
4	02-04-2021	19Q71A0356	Nammi Naga Jyothi Swaroop	Metal Cutting & Machine Tools	Fundamental Of Machining:	R.Ragava Rao
5	05-05-2021	20Q75A0305	Bade Raju	Thermodynamics	Pure Substance	S.H.Sharief
6	01-07-2021	20Q75A0332	Lalam Ramesh	Mechanics Of Solids	Shear Force And Bending Moment	V.Pradeep
7	12-05-2021	20Q75A0335	Mariseti Srinu	Fluid Mechanics & Hydraulic Machines	Fluid Dynamics	Dr.Avinash Ben
8	26-06-2021	20Q75A0353	Thotada Praveen Kumar	Metal Cutting & Machine Tools	Shaping, Slotting And Planning Machines	R.Ragava Rao
9	08-05-2021	20Q75A0356	Yeera Balakrishna	Thermodynamics	Psychometric Properties	S.H.Sharief
10	02-05-2021	20Q75A0366	Animireddy Chaitanya Kumar	Mechanics Of Solids	Deflection Of Beams	V.Pradeep
11	05-05-2021	20Q75A0370	Boddu Hema	Fluid Mechanics & Hydraulic Machines	Basics Of Turbo Machinery	Dr.Avinash Ben

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12	26-06-2021	20Q75A03 90	Meesala Srinu	Metal Cutting & Machine Tools	Milling Machines:	R.Ragava Rao
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Subject Name: Thermodynamics

Academic Year: 2020-2021

Class: II-B.Tech-II Sem

Snapshot-1

**Flow Of Presentation**

- Introduction
- Relation b/w Carnot and Ideal Cycle
- Carnot Cycle
- Stirling Cycle
- Diesel Cycle
- Rankine Cycle
- Reheat Cycle
- Q/A session

< 2 of 16 >

Snapshot-2

**Thermodynamics cycle**

- Rankine Cycle (steam engine)

1-2 isentropic pump  
2-3 constant pressure heat addition  
3-4 isentropic turbine  
4-1 constant pressure heat rejector

< 13 of 16 >



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**DEPARTMENT OF MECHANICAL ENGINEERING**

**Seminars**

**Subject Name: Thermodynamics**

**Academic Year:2020-2021**

**Class : II-B.Tech-II Sem**

SI.NO	REGD.NO.	3/5/2021	24/6/2021	8/5/2021	2/7/2021
1	18Q71A0347	Attended	Attended	Attended	Attended
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115	20Q75A0371	Attended	Attended	Absent	Attended



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116	20Q75A0372	Attended	Attended	Attended	Attended
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Seminars**

Department of Electronics and Communication Engineering has conducted seminar on each subject by student to enhance and upgrade the student's presentation skill. This activity will help the student publicly demonstrate their skills & Helps them to use their skill.

These seminars will enhance the knowledge of the students. For the improvement in the level of understanding and to develop insight in various subjects, seminars are organized for the learners in all academic years.

**Year wise subject list for seminar:**

<b>Class: B.Tech II Year</b>	
<b>SI.NO</b>	<b>SUBJECT NAME</b>
1	ANALOG COMMUNICATIONS
2	LINEAR CONTROL SYSTEMS
3	ELECTROMAGNETIC WAVES AND TRANSMISSION LINES
4	ELECTRONIC CIRCUIT ANALYSIS

<b>Class: B.Tech III Year</b>	
<b>SI.NO</b>	<b>SUBJECT NAME</b>
1	MICROPROCESSORS AND MICROCONTROLLERS
2	MICROWAVE ENGINEERING
3	VLSI DESIGN
4	DIGITAL SIGNAL PROCESSING

<b>Class: B.Tech IV Year</b>	
<b>SI.NO</b>	<b>SUBJECT NAME</b>
1	CELLULAR AND MOBILE COMMUNICATIONS
2	ELECTRONIC MEASUREMENTS AND INSTRUMENTATION
3	SATELLITE COMMUNICATIONS
4	WIRELESS SENSORS AND NETWORKS



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Class:II-B.Tech.-II Sem**

S.N O	DATE	ROLL NO.	NAME	SUBJECT	SEMINAR TOPIC	FACULTY INCHARGE
1	03-05-2021	19Q71A0418	Chadaram Lalitha	Analog communications	Amplitude Modulation	Mr R.shiva
2	24-06-2021	19Q71A0443	Boni Teja	Linear control systems	Transfer Function Representation	Ms K.Swetha
3	08-05-2021	19Q71A0446	Karri Mounika	Electromagnetic Waves And Transmission Lines	Transmission Lines - I	Mr S.Daya Sagar
4	02-07-2021	19Q71A0456	Kundatiri Sai Jaswanth	Electronic Circuit Analysis	Multistage Amplifiers	Mrs P.Prabavathi
5	05-05-2021	20Q75A0405	Gude Swetha	Analog communications	Dsb & Ssb Modulation	Mr R.shiva
6	01-07-2021	20Q75A0401	Bugatha Gowrinadh	Linear control systems	Time Responseanalysis	Ms K.Swetha
7	12-05-2021	20Q75A0408	Mediseti Madhuri	Electromagnetic Waves And Transmission Lines	Transmission Lines - Ii	Mr S.Daya Sagar
8	26-06-2021	20Q75A0409	Panchadarl a Deepthi	Electronic Circuit Analysis	Feedback Amplifiers	Mrs P.Prabavathi
9	08-05-2021	20Q75A0410	Polavarapu Appalaraju	Analog communications	Angle Modulation	Mr R.shiva

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10	02-07-2021	20Q75A041 1	Rahul Mahapatro	Linear control systems	Classical Control Design Techniques	Ms K.Swetha
11	05-05-2021	20Q75A041 2	S V R S Manikanta	Electromagnetic Waves And Transmission Lines	Em Wave Characteristics	Mr S.Daya Sagar
12	26-06-2021	20Q75A041 3	Simma Bhanu Prakash	Electronic Circuit Analysis	Oscillators	Mrs P.Prabavathi



Subject Name: Analog communications

Academic Year: 2020-2021

Class : II-B.Tech-II Sem

Snapshot-1

## Angle Modulation – Frequency Modulation

Consider again the general carrier  $v_c(t) = V_c \cos(\omega_c t + \phi_c)$

$(\omega_c t + \phi_c)$  represents the angle of the carrier.

There are two ways of varying the angle of the carrier.

- By varying the frequency,  $\omega_c$  – Frequency Modulation.
- By varying the phase,  $\phi_c$  – Phase Modulation

Snapshot-2

## Frequency Modulation

In FM, the message signal  $m(t)$  controls the frequency  $f_c$  of the carrier. Consider the carrier

$$v_c(t) = V_c \cos(\omega_c t)$$

then for FM we may write:

FM signal  $v_c(t) = V_c \cos[2\pi(f_c + \text{frequency deviation})t]$ , where the frequency deviation will depend on  $m(t)$ .

Given that the carrier frequency will change we may write for an instantaneous carrier signal

$$V_c \cos(\omega_c t) = V_c \cos(2\pi f_i t) = V_c \cos(\phi_i)$$

where  $\phi_i$  is the instantaneous angle =  $\omega_c t = 2\pi f_i t$  and  $f_i$  is the instantaneous frequency.

2



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**Subject Name: Analog communications**

**Academic Year:2020-2021**

**Class : II-B.Tech-II Sem**

SI.NO	REGD.NO.	3/5/2021	24/6/2021	8/5/2021	2/7/2021
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67	19Q71A0471	Attended	Attended	Attended	Attended
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71	19Q71A0475	Attended	Attended	Attended	Attended
72	19Q71A0476	Attended	Attended	Attended	Attended
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74	19Q71A0478	Attended	Attended	Attended	Attended
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76	19Q71A0480	Attended	Attended	Attended	Attended
77	19Q71A0481	Attended	Attended	Attended	Attended
78	19Q71A0482	Attended	Attended	Attended	Attended

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79	19Q71A0483	Attended	Attended	Attended	Attended
80	19Q71A0486	Attended	Attended	Attended	Attended
81	19Q71A0487	Attended	Attended	Attended	Attended
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85	19Q71A0491	Attended	Attended	Attended	Attended
86	19Q71A0492	Attended	Attended	Attended	Attended
87	19Q71A0493	Attended	Attended	Attended	Attended
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112	20Q75A0409	Attended	Attended	Attended	Attended
113	20Q75A0410	Attended	Attended	Attended	Attended
114	20Q75A0411	Attended	Attended	Attended	Attended
115	20Q75A0412	Attended	Attended	Attended	Attended
116	20Q75A0413	Attended	Attended	Attended	Attended

HOD-ECE



## EPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Seminars

Department of Computer Science Engineering has conducted seminar on each subject by student to enhance and upgrade the student's presentation skill. This activity will help the student publicly demonstrate their skills & Helps them to use their skill.

These seminars will enhance the knowledge of the students. For the improvement in the level of understanding and to develop insight in various subjects, seminars are organized for the learners in all academic years.

#### Year wise subject list for seminar:

Class:B.Tech II Year	
SI.NO	SUBJECT NAME
1	Database Management System
2	Formal Languages and Automata Theory
3	Java Programming
4	Probability and Statistics

Class:B.Tech III Year	
SI.NO	SUBJECT NAME
1	Object Oriented Analysis and Design
2	Digital Logic and Design
3	Machine Learning
4	Cryptography networks and Security

Class:B.Tech IV Year	
SI.NO	SUBJECT NAME
1	BLOCKCHAIN TECHNOLOGIES
2	DEEP LEARNING
3	QUANTUM COMPUTING
4	BIG DATA ANALYTICS



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**SEMINARS**

**Class:II-B.Tech.-II Sem**

SEMINAR GIVEN BY THE STUDENT						
SECTION:A						
S.N O	DATE	ROLL NO	NAME	SUBJECT	SEMINAR TOPIC	FACULTY INCHARGE
1.	12/3/2020	19Q71A0505	Allam Rohith	Database Management Systems	DBMS Keys	K.Mehar Prasad
2.	12/09/2020	19Q71A0508	Anirudh Patnaik	Database Management Systems	Integrity And Security	K.Mehar Prasad
3.	12/29/2020	19Q71A0513	Baddi Umesh Chandra	Formal Languages and Automata Theory	Pushdown Automata	Dr.ANNEPUBA LAKRISHNA
4.	1/5/2021	19Q71A0528	Cheepurupalli Manikanta	Formal Languages and Automata Theory	Turing machines	Dr.ANNEPUBA LAKRISHNA
5.	1/8/2021	19Q71A0534	Chilla Srinivas Reddy	Java Programming	Exception Handling	Y.Ramesh Kumar
6.	1/27/2021	19Q71A0538	Chintha Krishnakumari	Java Programming	Life cycle of Threads	Y.Ramesh Kumar
7.	2/12/2021	19Q71A0541	Darapu Sirisha	Managerial Economics & Financial Analysis	Accounting and Financial Analysis	M.Anusha Kumari
8.	2/18/2021	19Q71A0545	Deevi Vimallesh	Managerial Economics & Financial Analysis	Capital Budgeting	M.Anusha Kumari
9.	3/10/2021	19Q71A0549	Erusu Venkatesh	Probability and Statistics	Binominal Probability	Mrs.INDIRA
10.	4/6/2021	19Q71A0554	Golla Harika	Probability and Statistics	Theoretical Probability	Mrs.INDIRA
Section-B						
1.	12/8/20	19Q71A0	Karri Sai	Database	ER-Data	K.Mehar Prasad



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	20	569	Susmitha	Management Systems	model	
2.	12/17/2020	19Q71A0572	Kathili Ganesh	Database Management Systems	Model view Controller	K.Mehar Prasad
3.	12/21/2020	19Q71A0577	Kolli Yamini	Formal Languages and Automata Theory	More mealy machines	Dr.ANNEPUBALAK RISHNA
4.	1/7/2021	19Q71A0580	Korada Venkata Abyas	Formal Languages and Automata Theory	Recursion Theory	Dr.ANNEPUBALAK RISHNA
5.	1/20/2021	19Q71A0586	Landa Janardhana Rao	Java Programming	Inheritance	Y.Ramesh Kumar
6.	1/29/2021	19Q71A0588	Lanka Yashwanth	Java Programming	polymorphism	Y.Ramesh Kumar
7.	2/3/2021	19Q71A0593	Majji Rajababu	Managerial Economics & Financial Analysis	Profit Management and Capital Management	Mr.S.SUMAN DATTA
8.	2/10/2021	19Q71A0598	Margana Vijay Sai Kumar	Managerial Economics & Financial Analysis	Demand Analysis and Forecasting	Mr.S.SUMAN DATTA
9.	3/19/2021	19Q71A05A4	Modalavalasa Anil	Probability and Statistics	Simple Event	Mr.G.CHINNAYA
10.	4/7/2021	19Q71A05A8	Mukala Anusha	Probability and Statistics	Axiomatic Probability	Mr.G.CHINNAYA
<b>Section-C</b>						
1.	12/9/2020	19Q71A05C7	Pasapuleti Srinu Babu	Database Management Systems	Normalization	Mishra Sangeetha



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2.	12/18/2020	19Q71A05D1	Peetala Ashok	Database Management Systems	File Organization	Mishra Sangeetha
3.	12/30/2020	19Q71A05D7	Pitta Pooja	Formal Languages and Automata Theory	Formal Languages	P.Satyanarayana
4.	1/4/2021	19Q71A05E1	Puppala Varsha	Formal Languages and Automata Theory	Computability, decidability and Complexity	P.Satyanarayana
5.	1/29/2021	19Q71A05E9	Revivalin Jaison	Java Programming	Data Abstraction	Hanumanthu Devaraju
6.	1/5/2021	19Q71A05F4	Rowthu Karuna	Java Programming	Encapsulation	Hanumanthu Devaraju
7.	2/12/2021	19Q71A05G2	Sivala Yaswanth	Managerial Economics & Financial Analysis	Marketing Structures	Mr.S.Suman Datta
8.	2/26/2021	19Q71A05H1	Thammina Moulika	Managerial Economics & Financial Analysis	Cost and Product Analysis	Mr.S.Suman Datta
9.	3/10/2021	19Q71A05H8	Varanasi V.A.K.P Sastry	Probability and Statistics	Data Handling	Mr.G.Chinnaya
10.	4/7/2021	19Q71A05I9	Yellapu Nandini Sai	Probability and Statistics	Population and Sample	Mr.G.Chinnaya



Subject Name: Database Management Systems

Academic Year: 2020-2021

Class : II-B.Tech-II Sem

### Snapshot-1

## Types of Keys

- Super Key
- Candidate Key
- Primary Key
- Alternate Key
- Composite Key
- Foreign Key
- Unique Key

### Snapshot-2

**Keys**

A key is a field or set of fields whose values uniquely identify a record.

SCN	Name	Age	Height	Sex
00541922	Jane	25	25/47/2003	F
075512983	John	27	06/20/2002	M
074105252	Ann	20	12/01/2002	F
001121951	George	27	26/81/2001	F

In this example, we could use SCN as a key because it uniquely identifies a pupil record. No other pupil can have the same SCN (Scottish Candidate Number).

No other fields can uniquely identify each pupil record.



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**Subject Name: Database Management Systems**

**Academic Year:2020-2021**

**Class : II-B.Tech-II Sem**

SI.NO	REGD.NO.	12/9/2020	1/29/2021	3/10/2021	4/7/2021
1	19Q71A0501	Attended	Attended	Attended	Absent
2	19Q71A0502	Attended	Attended	Attended	Attended
3	19Q71A0503	Attended	Absent	Attended	Attended
4	19Q71A0505	Attended	Attended	Attended	Attended
5	19Q71A0506	Attended	Attended	Attended	Attended
6	19Q71A0507	Attended	Attended	Attended	Attended
7	19Q71A0508	Attended	Attended	Attended	Attended
8	19Q71A0509	Attended	Attended	Attended	Attended
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13	19Q71A0514	Attended	Attended	Attended	Attended
14	19Q71A0515	Attended	Attended	Attended	Attended
15	19Q71A0516	Attended	Attended	Attended	Attended
16	19Q71A0517	Attended	Attended	Attended	Attended
17	19Q71A0518	Attended	Attended	Attended	Attended
18	19Q71A0519	Absent	Attended	Attended	Attended
19	19Q71A0520	Attended	Attended	Attended	Attended
20	19Q71A0521	Attended	Attended	Absent	Attended
21	19Q71A0522	Attended	Absent	Attended	Attended
22	19Q71A0524	Attended	Attended	Attended	Attended
23	19Q71A0525	Attended	Attended	Attended	Attended
24	19Q71A0526	Attended	Attended	Attended	Attended
25	19Q71A0527	Attended	Attended	Attended	Attended
26	19Q71A0528	Attended	Attended	Attended	Attended
27	19Q71A0529	Attended	Attended	Attended	Attended
28	19Q71A0530	Absent	Attended	Attended	Attended
29	19Q71A0531	Attended	Attended	Absent	Attended
30	19Q71A0532	Attended	Absent	Attended	Attended
31	19Q71A0534	Attended	Attended	Absent	Attended
32	19Q71A0535	Attended	Attended	Attended	Attended
33	19Q71A0536	Attended	Attended	Attended	Attended

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58	19Q71A0561	Attended	Attended	Attended	Attended
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60	19Q71A0564	Attended	Attended	Absent	Attended
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65	19Q71A0569	Absent	Attended	Attended	Attended
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67	19Q71A0571	Attended	Absent	Attended	Absent
68	19Q71A0572	Attended	Attended	Absent	Attended
69	19Q71A0573	Attended	Attended	Attended	Attended
70	19Q71A0574	Attended	Attended	Attended	Attended
71	19Q71A0576	Attended	Attended	Attended	Attended
72	19Q71A0577	Attended	Attended	Attended	Attended
73	19Q71A0578	Absent	Attended	Attended	Attended
74	19Q71A0579	Attended	Attended	Attended	Attended



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87	19Q71A0594	Attended	Attended	Attended	Attended
88	19Q71A0595	Attended	Attended	Attended	Attended
89	19Q71A0596	Absent	Attended	Attended	Attended
90	19Q71A0597	Attended	Attended	Attended	Attended
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99	19Q71A05A7	Attended	Absent	Attended	Absent
100	19Q71A05A8	Attended	Attended	Absent	Attended
101	19Q71A05A9	Attended	Attended	Attended	Attended
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113	19Q71A05C2	Absent	Attended	Attended	Attended
114	19Q71A05C3	Attended	Attended	Attended	Attended
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116	19Q71A05C5	Attended	Attended	Absent	Attended
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131	19Q71A05E1	Attended	Absent	Attended	Absent
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135	19Q71A05E5	Attended	Attended	Attended	Attended
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138	19Q71A05E8	Attended	Attended	Attended	Attended
139	19Q71A05E9	Attended	Absent	Attended	Absent
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141	19Q71A05F2	Attended	Attended	Attended	Attended
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143	19Q71A05F4	Attended	Attended	Attended	Attended
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151	19Q71A05G2	Attended	Attended	Attended	Attended
152	19Q71A05G3	Attended	Attended	Attended	Attended
153	19Q71A05G4	Absent	Attended	Attended	Attended
154	19Q71A05G5	Attended	Attended	Attended	Attended
155	19Q71A05G6	Attended	Absent	Attended	Absent
156	19Q71A05G7	Attended	Attended	Absent	Attended



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157	19Q71A05G8	Attended	Attended	Attended	Attended
158	19Q71A05G9	Attended	Attended	Attended	Attended
159	19Q71A05H0	Attended	Attended	Attended	Attended
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161	19Q71A05H2	Absent	Attended	Attended	Attended
162	19Q71A05H3	Attended	Attended	Attended	Attended
163	19Q71A05H4	Attended	Absent	Attended	Absent
164	19Q71A05H5	Attended	Attended	Absent	Attended
165	19Q71A05H6	Attended	Attended	Attended	Attended
166	19Q71A05H8	Attended	Attended	Attended	Attended
167	19Q71A05H9	Attended	Attended	Attended	Attended
168	19Q71A05I0	Attended	Attended	Attended	Attended
169	19Q71A05I1	Absent	Attended	Attended	Attended
170	19Q71A05I2	Attended	Attended	Attended	Attended
171	19Q71A05I3	Attended	Absent	Attended	Absent
172	19Q71A05I4	Attended	Attended	Absent	Attended
173	19Q71A05I5	Attended	Attended	Attended	Attended
174	19Q71A05I7	Attended	Attended	Attended	Attended
175	19Q71A05I8	Attended	Attended	Attended	Attended
176	19Q71A05I9	Attended	Attended	Attended	Attended
177	19Q71A05J0	Absent	Attended	Attended	Attended
178	19Q71A05J1	Attended	Attended	Attended	Absent
179	19Q71A05J3	Attended	Absent	Absent	Attended
180	20Q75A0501	Attended	Attended	Attended	Attended
181	20Q75A0503	Attended	Attended	Attended	Attended
182	20Q75A0504	Attended	Attended	Attended	Attended

Head of the Department  
Computer Science and Engineering  
AVANTHI INSTITUTE OF ENGINEERING & TECH  
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Bhogapuram (M), Vizianagaram(D)-531162  
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---

## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**(Data Science)**

### **Seminars**

Department of Computer Science Engineering (Data Science) has conducted seminar on each subject by student to enhance and upgrade the student's presentation skill. This activity will help the student publicly demonstrate their skills & Helps them to use their skill.

These seminars will enhance the knowledge of the students. For the improvement in the level of understanding and to develop insight in various subjects, seminars are organized for the learners in all academic years.



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

(Data Science)

**SEMINARS**

Class:I-B.Tech.-I Sem

SEMINAR GIVEN BY THE STUDENT						
CSD						
S.NO	DATE	ROLL NO	NAME	SUBJECT	SEMINAR TOPIC	FACULTY INCHARGE
1.	12/3/2020	20Q71A4404	Bada Sai Dinesh Kumar	Programming for Problem Solving	Arrays	Ch.Rupa Devi
2.	12/09/2020	20Q71A4410	Dharmavarapu Anudeep	Programming for Problem Solving	pointers	Ch.Rupa Devi
3.	12/29/2020	20Q71A4414	Gulivindala Hymavathi	Chemistry	Polymers	Ch.Rupa Devi
4.	1/5/2021	20Q71A4420	Migada Tulasi Prasad	Programming for Problem Solving	Functions	Ch.Rupa Devi
5.	1/8/2021	20Q71A4429	Sahu Mahesh	Chemistry	Polymers	Ch.Rupa Devi



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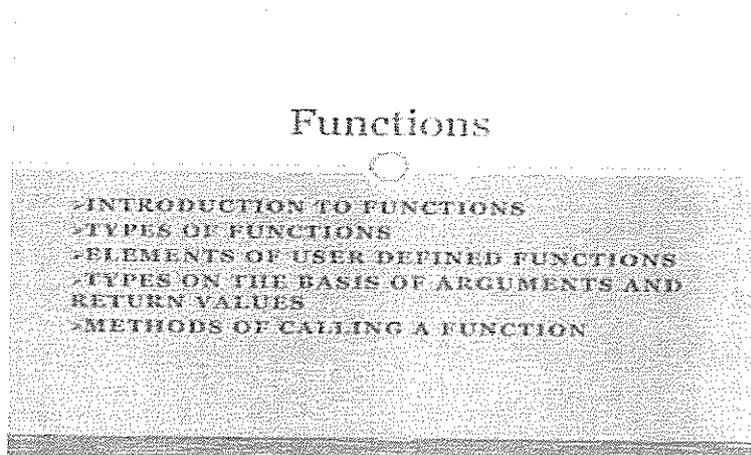
## SEMINARS

**Subject Name: Programming for Problem Solving**

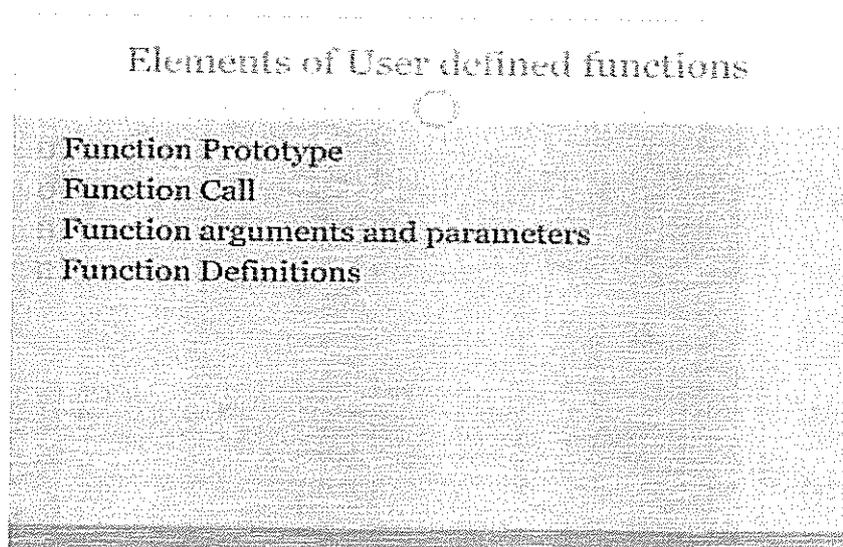
**Academic Year: 2020-2021**

**Class : I-B.Tech-I Sem**

### Snapshot-1



### Snapshot-2





### Snapshot-3



## Definitions

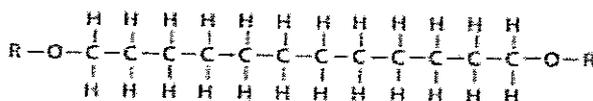
- ❖ Polymer – A very long molecule composed of repeating units connected by covalent bonds
- ❖ Monomer – A repeated unit in a polymer. The reactant for the polymerization reaction.

### Snapshot-4



## Skeletal Structure

- ❖ Linear – a chain with two ends





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**Subject Name: Programming for Problem Solving**

**Academic Year:2020-2021**

**Class : I-B.Tech-I Sem**

S. No.	Roll No.	Student Name	Dates		
			18--9-2020	23-09-2020	28-10-2020
1	20Q71A4401	Abhiram Nalla	Absent	Attended	Attended
2	20Q71A4402	Allada Harshavardhan	Attended	Attended	Attended
3	20Q71A4403	Amarapini Sree Naga Geethika	Attended	Attended	Attended
4	20Q71A4404	Bada Sai Dinesh Kumar	Attended	Attended	Attended
5	20Q71A4406	Botcha Pradeep Kumar	Attended		Attended
6	20Q71A4407	Botcha Siva Sankar	Attended	Attended	
7	20Q71A4408	Charakana Purushotham Naidu	Attended	Attended	Attended
8	20Q71A4409	Chaulapalli Sriharsha	Attended	Attended	Attended
9	20Q71A4410	Dharmavarapu Anudeep	Attended	Absent	Attended
10	20Q71A4411	Dharmavarapu Dinesh Kumar	Absent	Attended	Attended
11	20Q71A4412	Gedda Supriya	Attended	Absent	Attended
12	20Q71A4413	Ghising Padma Lama	Attended	Attended	Absent
13	20Q71A4414	Gulivindala Hymavathi	Attended	Attended	Attended
14	20Q71A4415	Kakaraparthi Naga Durga Kavya Sri	Attended	Attended	Attended
15	20Q71A4416	Kasula Sai Lakshmi Shreya	Attended	Attended	Attended
16	20Q71A4417	Lodagala Teja	Attended	Attended	Attended
17	20Q71A4418	Mahammad Haseena Begum	Attended	Attended	Attended
18	20Q71A4419	Majhi Saraswathi	Attended	Attended	Attended
19	20Q71A4420	Migada Tulasi Prasad	Absent	Attended	Attended
20	20Q71A4421	Muddada Jyothi Kiran	Attended	Attended	Absent
21	20Q71A4422	Mudiya Kavya	Attended	Absent	Attended
22	20Q71A4423	Nagarampalli Govind	Attended	Attended	Attended
23	20Q71A4424	Neerukonda Dhanalakshmi	Attended	Attended	Absent
24	20Q71A4425	Patnana Vasavi	Attended	Attended	Attended
25	20Q71A4426	Prasanta Kumar Mohanty	Attended	Attended	Attended
26	20Q71A4427	Ratnala Manasa	Attended	Attended	Attended
27	20Q71A4428	Rusyasruna Himamsu		Attended	Attended
28	20Q71A4429	Sahu Mahesh	Attended	Attended	Attended



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29	20Q71A4431	Sasapu Nymisha	Absent	Attended	Attended
30	20Q71A4432	Seepana Geetha	Attended	Attended	Attended
31	20Q71A4433	Lavanya Seepana	Attended	Absent	Attended
32	20Q71A4434	Surisetty Gnana Radha Prasanna Ramalakshmi	Attended	Attended	Absent
33	20Q71A4435	Seerapu Lavanya	Attended	Attended	Attended
34	20Q71A4436	Teketi Paul Timothy	Attended	Attended	Attended
35	20Q71A4437	Tanuja Oleti	Attended	Attended	Attended
36	20Q71A4438	Teki Rohith Kiran	Attended	Attended	Attended
37	20Q71A4439	Thottempudi Avinash	Attended	Attended	Attended
38	20Q71A4440	Undabhatla Sowmya Sree	Absent	Attended	Attended
39	20Q71A4441	Vanam Gnana Venkata Yeshwanth	Attended	Attended	Attended
40	20Q71A4442	Yadla Lahari	Attended	Absent	Attended
41	20Q71A4443	Balla Jaisheel	Attended	Attended	Absent
42	20Q71A4445	Damalapati Harshitha	Attended	Attended	Attended
43	20Q71A4447	Ravva Deepika	Attended	Attended	Attended
44	20Q71A4449	Vanapalli Priyanka	Attended	Attended	Attended
45	20Q71A4450	Volla Deepika	Attended	Attended	Attended
46	20Q71A4451	Yedida Satya Surya Sai Hanuman	Absent	Attended	Attended
47	20Q71A4452	Katajuri Bhuvana Sai Sri	Attended	Attended	Attended

  
HOD, CSD  
Head of the Department  
CSE-Data Science  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**(Artificial Intelligence and Machine Learning)**

**Seminars**

Department of Computer Science Engineering(Artificial Intelligence and Machine Learning) has conducted seminar on each subject by student to enhance and upgrade the student's presentation skill. This activity will help the student publicly demonstrate their skills & Helps them to use their skill.

These seminars will enhance the knowledge of the students. For the improvement in the level of understanding and to develop insight in various subjects, seminars are organized for the learners in all academic years.



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

(Artificial Intelligence and Machine Learning)

**Class:I-B.Tech.-I Sem**

SEMINAR GIVEN BY THE STUDENT						
CSM						
S.NO	DATE	ROLL NO	NAME	SUBJECT	SEMINAR TOPIC	FACULTY INCHARGE
1.	12/3/2020	20Q71A4237	Soorapu Sekhar	Programming for Problem Solving	Arrays	Ch.Rupa Devi
2.	12/09/2020	20Q71A4259	D Sravani	Chemistry	polymers	Ch.Rupa Devi
3.	12/29/2020	20Q71A4241	Yandra Satya Priyanka	Programming for Problem Solving	Functions	Ch.Rupa Devi
4.	1/5/2021	20Q71A4230	Pamu Sridevi	Chemistry	polymers	Ch.Rupa Devi
5.	1/8/2021	20Q71A4221	Kalla Jyothish	Programming for Problem Solving	Files	Ch.Rupa Devi



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**(Artificial Intelligence and Machine Learning)**

**Subject Name: Programming for Problem Solving**

**Academic Year: 2020-2021**

**Class : I-B.Tech-I Sem**

**Snapshot-1**



## What is Array?

---

- An array is a fixed-size sequential collection of elements of same data types that share a common name.
- It is simply a group of data types.
- An array is a derived data type.
- An array is used to represent a list of numbers , or a list of names.



## Snapshot-2

### Types of Arrays

---

- Types of Array :
  1. One-dimensional arrays
  2. Two-dimensional arrays
  3. Multidimensional arrays

## Snapshot-3

### One-dimensional Arrays.

---

- and the computer store these numbers as shown below :
  - number [0]
  - number [1]
  - number [2]
  - number [3]
  - number [4]
- The values can be assigned to the array as follows :
  - number [0] = 35;
  - number [1] = 40;
  - number [2] = 20;
  - number [3] = 57;
  - number [4] = 19;

7





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**Subject Name:Chemistry**

**Academic Year:2020-2021**

**Class : I-B.Tech-I Sem**

S. No.	Roll No.	Student Name	Dates		
			18--9-2020	23-09-2020	28-10-2020
1	20Q71A4201	Akula Venugopal	Attended	Attended	Attended
2	20Q71A4202	Animelli Swarna Mythili	Absent	Attended	Attended
3	20Q71A4203	Bachu Laxmi Narasimha Satya Abhishek	Attended	Attended	Attended
4	20Q71A4205	Bathula Sirisha Kalyani	Attended	Attended	Attended
5	20Q71A4206	Bonangi Lakshmi Narayana	Attended	Attended	Attended
6	20Q71A4207	Chitra Leela Krishna Sastha	Attended		Attended
7	20Q71A4208	Dasumahanthi Maitreya Patnaik	Attended	Attended	
8	20Q71A4210	Doki Pranathi	Attended	Attended	Attended
9	20Q71A4210	Doki Pranathi	Attended	Attended	Attended
10	20Q71A4211	Elapakurthy Revanth	Attended	Absent	Attended
11	20Q71A4212	Gembali Jayaram Gupta	Absent	Attended	Attended
12	20Q71A4213	Gorle Hemanjali	Attended	Absent	Attended
13	20Q71A4214	Gunda Ravindra	Attended	Attended	Absent
14	20Q71A4215	Gunduboyina Greeshma Siri	Attended	Attended	Attended
15	20Q71A4216	Gurajapu Sreemanikanta	Attended	Attended	Attended
16	20Q71A4217	Inti Varshini	Attended	Attended	Attended
17	20Q71A4218	Jajimoggala Navya Teja	Attended	Attended	Attended
18	20Q71A4219	Jayanthi Seera	Attended	Attended	Attended

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19	20Q71A4220	Kakarla Nandini	Attended	Attended	Attended
20	20Q71A4221	Kalla Jyothish	Absent	Attended	Attended
21	20Q71A4222	Kamsu Chandu Sai	Attended	Attended	Absent
22	20Q71A4223	Kappala Uma Maheswari	Attended	Absent	Attended
23	20Q71A4224	Kedarisetty Sumanth	Attended	Attended	Attended
24	20Q71A4225	Kinthada Swarnalatha	Attended	Attended	Absent
25	20Q71A4226	Kommalapati Durga Sai	Attended	Attended	Attended
26	20Q71A4227	Lakkakula Pavan Sai Kumar	Attended	Attended	Attended
27	20Q71A4228	Mohammad Farheen	Attended	Attended	Attended
28	20Q71A4229	Palo Radha Vinodh		Attended	Attended
29	20Q71A4230	Pamu Sridevi	Attended	Attended	Attended
30	20Q71A4231	Pedapudi Sanjay Kumar	Absent	Attended	Attended
31	20Q71A4232	Polavarapu Dinesh Kumar	Attended	Attended	Attended
32	20Q71A4233	Potnuru Rakesh	Attended	Absent	Attended
33	20Q71A4234	Pukkalla Viratbabu	Attended	Attended	Absent
34	20Q71A4235	Secthanu Raju	Attended	Attended	Attended
35	20Q71A4237	Soorapu Sekhar	Attended	Attended	Attended
36	20Q71A4239	Telukula Bharat	Attended	Attended	Attended
37	20Q71A4240	Vulli Surya Charan	Attended	Attended	Attended
38	20Q71A4241	Yandra Satya Priyanka	Attended	Attended	Attended
39	20Q71A4242	Yardhala Veera Siva Sundeep	Absent	Attended	Attended
40	20Q71A4243	Yellai Likhita	Attended	Attended	Attended
41	20Q71A4244	Yenuguthala Mounika	Attended	Absent	Attended
42	20Q71A4245	Yerra Tejaswini	Attended	Attended	Absent



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43	20Q71A4246	Dontala Uday Kumar	Attended	Attended	Attended
44	20Q71A4247	D Eswari Indu	Attended	Attended	Attended
45	20Q71A4248	Gandreti Kishore	Attended	Attended	Attended
46	20Q71A4249	Goriparthi Sai Harshavardhan	Attended	Attended	Attended
47	20Q71A4250	Jannila Harshavardhan Ram Kumar	Absent	Attended	Attended
48	20Q71A4252	Lukalapu Akhilandeswari	Attended	Attended	Attended
49	20Q71A4253	Maddi Dinesh	Attended	Attended	Attended
50	20Q71A4254	Maddula Vishnu Jyothika	Attended	Attended	Attended
51	20Q71A4255	Munakala Radha	Attended	Attended	Attended
52	20Q71A4257	Reddi Chanikya Sairam	Attended	Attended	Attended
53	20Q71A4258	Tankala Bhaskaraditya	Attended	Attended	Attended
54	20Q71A4259	D Sravani	Attended	Attended	Attended

  
Head of the Department  
CSE-AI & ML  
AVANTHI INSTITUTE OF ENGG. & TECH.  
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**DEPARTMENT OF MANAGEMENT STUDIES**

Department of Mechanical Engineering has conducted seminar on each subject by student to enhance and upgrade the student's presentation skill. This activity will help the student publicly demonstrate their skills & Helps them to use their skill.

These seminars will enhance the knowledge of the students. For the improvement in the level of understanding and to develop insight in various subjects, seminars are organized for the learners in all academic years.

**Year wise subject list for seminar:**

Class:MBA I Year	
SI.NO	SUBJECT NAME
1	MANAGEMENT OF ORGANISATIONBEHAVIOR
2	MANAGERIAL ECONOMIC
3	QUANTITATIVE ANALYSIS AND BUSINESS DECISION
4	ACCOUNTING FOR MANAGERS

Class:MBA II Year	
SI.NO	SUBJECT NAME
1	STRATEGIC MANAGEMENT
2	INVESTMENT ANALYSIS AND PORTFOLIO MANAGEMENT
3	OPERATIONS RESEARCH
4	LEADERSHIP AND CHANGE MANAGEMENT



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**DEPARTMENT OF MANAGEMENT STUDIES**

**SEMINAR GIVEN BY STUDENTS**

Class:I -MBA.-I Sem

Sl No	Date	Roll No.	Name	Subject	Seminar Topic	Faculty Incharge
1	03-05-2021	20Q71E0002	Abdul Feroz Khan	Management And Organisationbehavior	Levels Of Management	Jakkampudi Sowmya
2	24-06-2021	20Q71E0003	Achanti Siva Sankar	Managerial Economic	Law Of Demand	S P Santhoshi
3	08-05-2021	20Q71E0004	Addagarla Ksheeraboli	Quantitative Analysis And Business Decision	Measures Of Dispersion	T Srinivas
4	02-07-2021	20Q71E0005	Addala Santosh Kumar	Accounting For Managers	Financial Statements	S Suman Datta
5	05-05-2021	20Q71E0014	Bellana Dadibabu	Management And Organisationbehavior	Perception	Jakkampudi Sowmya
6	01-07-2021	20Q71E0015	Billakurthi Purnitha Lakshmi Naga Rishita	Managerial Economic	Economies And Dis Economies Of Scale	S P Santhoshi
7	12-05-2021	20Q71E0016	Boddakayala Vardhan	Quantitative Analysis And Business Decision	Regressionanalysis	T Srinivas
8	26-06-2021	20Q71E0026	Dumpa Akhil	Accounting For Managers	Accounting Cycle	S Suman Datta
9	08-05-2021	20Q71E0027	G Anil Kumar	Management And Organisationbehavior	Techniques And Process Of Decisionmaking	Jakkampudi Sowmya
10	02-07-2021	20Q71E0028	Gedela Ganesh	Managerial Economic	Law Of Returns To Scale	S P Santhoshi
11	05-05-2021	20Q71E0035	Gummella Naveen	Quantitative Analysis And Business	Analysis Of Variance	T Srinivas

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				Decision		
12	26-06-2021	20Q71E0036	K Sai Durga Prasanna Kumar	Accounting For Managers	Types Of Budgets	R.Ragav a Rao

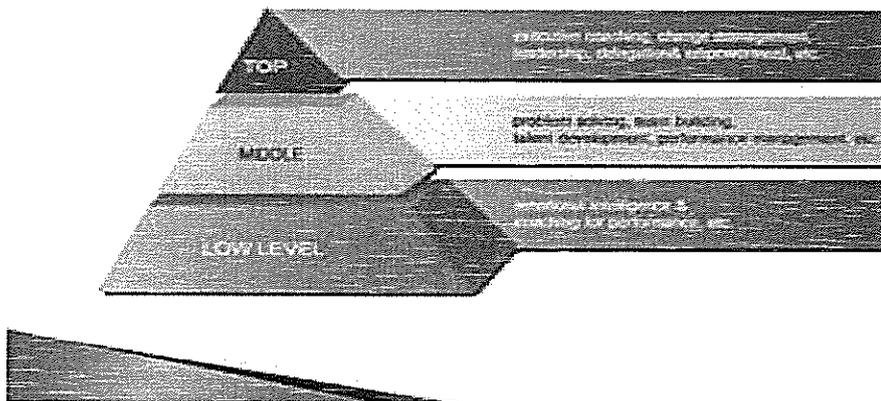


**DEPARTMENT OF MANAGEMENT STUDIES**

**Subject Name: Management and organization behavior    Academic Year:2020-2021**

**Class : I-MBA I- Sem**

**Snapshot-1**



**Snapshot-2**

**Role of Top Mgmt**

Top management lays down the objectives and broad policies of the enterprise. It issues necessary instructions for preparation of department budgets, procedures, schedules etc. It prepares strategic plans & policies for the enterprise. It appoints the executive for middle level i.e. departmental managers.





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**Subject Name: management and organization behavior**

**Academic Year:2020-2021**

**Class : I-MBA-I Sem**

Sl.NO	REGD.NO.	08/1/2021	22/1/2021	2/5/2021	19/02/2021
1	20Q71E0001	Attended	Attended	Attended	Attended
2	20Q71E0002	Attended	Attended	Attended	Attended
3	20Q71E0003	Attended	Attended	Attended	Attended
4	20Q71E0004	Attended	Attended	Attended	Attended
5	20Q71E0005	Attended	Attended	Absent	Attended
6	20Q71E0006	Attended	Attended	Attended	Attended
7	20Q71E0007	Attended	Attended	Attended	Attended
8	20Q71E0008	Attended	Attended	Attended	Attended
9	20Q71E0009	Attended	Attended	Attended	Attended
10	20Q71E0010	Attended	Absent	Attended	Attended
11	20Q71E0011	Attended	Attended	Attended	Attended
12	20Q71E0012	Attended	Attended	Attended	Attended
13	20Q71E0013	Absent	Attended	Attended	Attended
14	20Q71E0014	Attended	Attended	Attended	Attended
15	20Q71E0015	Attended	Attended	Attended	Absent
16	20Q71E0016	Attended	Attended	Attended	Attended
17	20Q71E0017	Attended	Attended	Attended	Attended
18	20Q71E0018	Attended	Attended	Attended	Attended
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20	20Q71E0020	Attended	Attended	Absent	Absent
21	20Q71E0021	Attended	Attended	Attended	Attended
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30	20Q71E0030	Attended	Attended	Attended	Attended
31	20Q71E0031	Attended	Attended	Attended	Attended
32	20Q71E0032	Attended	Attended	Attended	Attended
33	20Q71E0033	Attended	Attended	Attended	Attended
34	20Q71E0034	Attended	Attended	Attended	Attended
35	20Q71E0035	Absent	Absent	Attended	Attended
36	20Q71E0036	Attended	Attended	Attended	Attended
37	20Q71E0037	Attended	Attended	Attended	Attended

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38	20Q71E0038	Attended	Attended	Attended	Attended
39	20Q71E0039	Attended	Attended	Attended	Attended
40	20Q71E0040	Attended	Attended	Attended	Attended
41	20Q71E0041	Attended	Attended	Attended	Attended
42	20Q71E0042	Attended	Attended	Attended	Attended
43	20Q71E0043	Attended	Attended	Attended	Attended
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62	20Q71E0062	Attended	Attended	Attended	Attended
63	20Q71E0063	Attended	Attended	Attended	Attended
64	20Q71E0064	Attended	Attended	Attended	Attended
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68	20Q71E0068	Attended	Attended	Attended	Attended
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74	20Q71E0074	Attended	Attended	Attended	Attended
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77	20Q71E0077	Attended	Attended	Attended	Attended
78	20Q71E0078	Attended	Attended	Attended	Attended

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79	20Q71E0079	Attended	Attended	Attended	Attended
80	20Q71E0080	Attended	Attended	Attended	Attended
81	20Q71E0081	Attended	Attended	Attended	Attended
82	20Q71E0082	Attended	Attended	Attended	Attended
83	20Q71E0083	Attended	Attended	Attended	Attended
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87	20Q71E0087	Attended	Attended	Attended	Absent
88	20Q71E0088	Attended	Attended	Attended	Attended
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90	20Q71E0090	Attended	Attended	Attended	Attended
91	20Q71E0091	Attended	Attended	Absent	Attended
92	20Q71E0092	Attended	Attended	Attended	Attended
93	20Q71E0093	Absent	Attended	Attended	Attended
94	20Q71E0094	Attended	Absent	Attended	Attended

Head of the Department  
Master of Business Administration  
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VIZIANAGARAM (Dist.)  
*S. S. Srinivasulu*  
HOD-MBA



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## **GROUP DISCUSSIONS**

### **DEPARTMENT OF CIVIL ENGINEERING**

#### **Report on Quiz Program on "Civil Engineering, Current Affairs & General knowledge"**

Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B. Tech Year/Semester: All Students

Date: 26/02/2021

MR. R. Rohith, Assist. Prof, has conducted a Quiz Program for All year students. 87 members have participated in the technical fest event. This program was organized under the guidance of Mr. R. Venkatesh, HOD, Civil Engineering.

The total strength was divided into 9 groups. The event was started by introducing about the Quiz program and giving instructions to the students, by the concern faculty. And then he started asking questions the students who knows the answer are giving answers.

Students are actively participated the program and they exposed to learn more beyond the subject. They are showing interest to attend this type of programs in our institution. They get motivated by the faculty to participate such programs.



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1. In a liquid limit test, the moisture content at 10 blows was 70% and that at 100 blows was 20%. The liquid limit of the soil, is
    - A. 35%
    - B. 50%
    - C. 65%
    - D. none of these.
  
  2. The active earth pressure of a soil is proportional to (where  $\phi$  is the angle of friction of the soil)
    - A.  $\tan (45^\circ - \phi)$
    - B.  $\tan^2 (45^\circ + \phi/2)$
    - C.  $\tan^2 (45^\circ - \phi/2)$
    - D.  $\tan (45^\circ + \phi)$
  
  3. The minimum water content at which the soil just begins to crumble when rolled into threads 3 mm in diameter, is known
    - A. liquid limit
    - B. plastic limit
    - C. shrinkage limit
    - D. permeability limit
  
  4. Which one of the following statements is true ?
    - A. Clays are more porous than sands
    - B. Pressure of organic matter in a soil decreases the bearing capacity of the soil
    - C. Aluminous cement is used for foundations in soils with chemical deposits
    - D. All the above.
  
  5. Pick up the correct statement from the following:
    - A. The rise of the ground surface due to frost action is called frost heave.
    - B. The freezing of water is accompanied by a volume increase of 9%.
    - C. Below freezing point, higher soil suction develops.
    - D. The magnitude of frost heave decreases as the degree of saturation of soil decreases
    - E. All the above
  
  6. Borrow pits should preferably be located in
    - A. field on the left side of the canal
    - B. field on the right side of the canal
    - C. fields on both sides of the canal
    - D. central half width of the section of the canal
  
  7. Irrigation canals are generally aligned along
    - A. ridge line
    - B. contour line
    - C. valley line
    - D. straight line.
-



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8. The length of a meander is the distance along the river between the tangent point of one curve to the tangent point of
- A. reverse curve
  - B. next curve of the same order
  - C. reverse curve plus the width of the river
  - D. none of these.
9. If  $B$  and  $d$  are the bed width and depth of a channel in metres, the combined losses due to evaporation and seepage in cumecs per kilometre length of the channel, is
- A.  $\frac{1}{50} (B + d)^{2/3}$
  - B.  $\frac{1}{100} (B + d)^{2/3}$
  - C.  $\frac{1}{150} (B + d)^{2/3}$
  - D.  $\frac{1}{200} (B + d)^{2/3}$
10. Pick up the incorrect statement from the following
- A. Side walls of a venturi head flume are splayed out from the end of the throat at 1 : 10 for a length of 4.5 m
  - B. Length of side walls should be such that the width of the flume is made equal to 2/3rd the bed width of the distributary
  - C. Once the width of the flume becomes 2/3rd of the width of the distributary, the splayed walls are increased to 1 in 3 to get full bed width
  - D. None of these
11. Hydrographic surveys deal with the mapping of
- A. large water bodies
  - B. heavenly bodies
  - C. mountaineous region
  - D. canal system
  - E. movement of clouds.
12. If  $h$  is the difference in level between end points separated by  $l$ , then the slope correction is  $\frac{h^2}{2l} + \frac{h^4}{8l^3}$ . The second term may be neglected if the value of  $h$  in a 20 m distance is less than
- A.  $\frac{1}{2}$  m
  - B. 1 m
  - C. 2 m
  - D. 3 m



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13. An ideal vertical curve to join two gradients, is
- A. circular
  - B. parabolic
  - C. elliptical
  - D. hyperbolic
14. Pick up the correct statement from the following :
- A. the eyepiece plays no part in defining the line of sight
  - B. the diaphragm plays no part in defining the line of sight
  - C. the optical centre of the objective plays no part in defining the line of sight
  - D. none of these.
15. The intercept of a staff
- A. is maximum if the staff is held truly normal to the line of sight.
  - B. is minimum if the staff is held truly normal to the line of sight.
  - C. decreases if the staff is tilted away from normal
  - D. increases if the staff is tilted towards normal.



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Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

MBA Year/Semester: Participated students

Date: 26/02/2021

ATTENDANCE SHEET

SI.NO	REGD.NO	NAME OF THE STUDENT	SIGN
1	17Q71A0101	Annepu Upendra	Attended
2	17Q71A0102	Baddem Sai Lokesh	Attended
3	17Q71A0103	Badithaboina Divija	Attended
4	17Q71A0104	Chandaka Srihari	Attended
5	17Q71A0105	Dappodi Digvijay	Attended
6	17Q71A0108	Girada Vykunta Rao	Attended
7	17Q71A0109	Gokada Bhanu Kumar	Attended
8	17Q71A0110	Gorrela Praveen Kumar	Attended
9	17Q71A0111	Gotta Ganesh	Attended
10	17Q71A0112	Kolla Srinivasarao	Attended
11	17Q71A0115	Metta Devendhar	Attended
12	17Q71A0117	Nakka Umesh Chandra	Attended
13	17Q71A0120	Saikrishna V	Attended
14	17Q71A0122	Singireddi Venkata Ramana	Attended
15	18Q75A0101	Chalumuri Ravi Teja	Attended
16	18Q75A0103	Gorle Prabhu	Attended
17	18Q75A0105	Gudla Naveen	Attended
18	18Q75A0108	Kimmi Venkata Nikhil	Attended
19	18Q75A0110	Lenka Dinesh	Attended
20	18Q75A0111	Nalla Ravi	Attended
21	18Q75A0112	Nallasamanta Shankara Rao	Attended
22	18Q75A0113	Madaka Santosh Kumar	Attended
23	18Q75A0114	Ramesh Sambangi	Attended
24	18Q75A0116	Sadhu Vamsi	Attended
25	18Q75A0117	Suri Pavan Kalyan	Attended
26	18Q75A0118	Suri Raja Rao	Attended

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27	18Q75A0119	Vasamsetti Pavan Kumar	Attended
28	18Q75A0120	Voona Pavan Kumar	Attended
29	18Q75A0121	Vyasalapu Sunny Deepak	Attended
30	18Q75A0122	Yalla Sai Venkata Jagadeesh	Attended
31	18Q71A0101	B Biswajith	Attended
32	18Q71A0104	Ch Suchitra	Attended
33	18Q71A0106	J Devi	Attended
34	18Q71A0108	K Shyam Kumar Raju	Attended
35	18Q71A0109	N Prasanth	Attended
36	18Q71A0111	P Santosh	Attended
37	18Q71A0113	R Bharath Surya	Attended
38	18Q71A0114	S Shymanth Prasad	Attended
39	18Q71A0115	T Tejaswini	Attended
40	19Q75A0101	A Ravindra	Attended
41	19Q75A0103	B Sai Ganesh	Attended
42	19Q75A0106	J Neelima	Attended
43	19Q75A0107	G Chandra Sekhar	Attended
44	19Q75A0108	K S Radha Krishna	Attended
45	19Q75A0109	K Pavan Kumar	Attended
46	19Q75A0110	K Sai Teja	Attended
47	19Q75A0111	K Satish	Attended
48	19Q75A0113	M Anand	Attended
49	19Q75A0114	M Bharath	Attended
50	19Q75A0117	P Sai Chandu	Attended
51	19Q75A0118	P Jeevan Kumar	Attended
52	19Q75A0119	R Raju	Attended
53	19Q75A0120	S Raju	Attended
54	19Q75A0121	S Nageswara Rao	Attended
55	19Q75A0122	S Ram Sai	Attended
56	19Q75A0123	S Vamsi	Attended
57	19Q75A0124	T Indravathi	Attended

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58	19Q75A0125	Y Anusha	Attended
59	19Q71A0101	Chetla Saraswathi	Attended
60	19Q71A0102	Chandana Pandi	Attended
61	19Q71A0103	Ellipilli Srinuvas	Attended
62	19Q71A0104	G Mithun Krishnan	Attended
63	19Q71A0105	Jestadi Tharun	Attended
64	19Q71A0106	G. Hemanth Bhuvan Chand	Attended
65	19Q71A0107	Mallareddy Lokesh	Attended
66	19Q71A0108	Menda Koteswara Rao	Attended
67	19Q71A0109	Mudili Guna Shekar	Attended
68	19Q71A0110	Ommi Pavan Kumar	Attended
69	19Q71A0111	Pediredla Lokesh	Attended
70	19Q71A0112	Reddi Chandra Mouli	Attended
71	19Q71A0115	Vanjari Anusha	Attended
72	20Q75A0101	Boni Vijay Kumar	Attended
73	20Q75A0102	Seeku Ramyasri	Attended
74	20Q75A0103	Mandadi Rakesh Kumar Reddy	Attended
75	20Q75A0104	Kuracha Teja	Attended
76	20Q75A0105	Marrapu Manikanta	Attended
77	20Q75A0106	Masabattula Satyannarayana	Attended
78	20Q75A0107	Pallela Vinay	Attended
79	20Q75A0108	Pilli Murali	Attended
80	20Q75A0109	Bandaru Manohar	Attended



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MARKS

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0101	ANNENU UPENDRA	A	70
2	17Q71A0102	BADDEM SAI LOKESH	A	70
3	17Q71A0103	BADITHABOINA DIVIJA	A	70
4	17Q71A0104	CHANDAKA SRIHARI	A	70
5	17Q71A0105	DAPPODI DIGVIJAY	A	70
6	17Q71A0108	GIRADA VYKUNTA RAO	A	70
7	17Q71A0109	GOKADA BHANU KUMAR	A	70
8	17Q71A0110	GORRELA PRAVEEN KUMAR	A	70
9	17Q71A0111	GOTTA GANESH	A	70
10	17Q71A0112	KOLLA SRINIVASARAO	A	70

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0115	METTA DEVENDHAR	B	40
2	17Q71A0117	NAKKA UMESH CHANDRA	B	40
3	17Q71A0120	SAIKRISHNA V	B	40
4	17Q71A0122	SINGIREDDI VENKATA RAMANA	B	40
5	18Q75A0101	CHALUMURI RAVI TEJA	B	40
6	18Q75A0103	GORLE PRABHU	B	40
7	18Q75A0105	GUDLA NAVEEN	B	40
8	18Q75A0108	KIMMI VENKATA NIKHIL	B	40
9	18Q75A0110	LENKA DINESH	B	40
10	18Q75A0111	NALLA RAVI	B	40

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q75A0112	NALLASAMANTA SHANKARA RAO	C	50
2	18Q75A0113	MADAKA SANTOSH KUMAR	C	50
3	18Q75A0114	RAMESH SAMBANGI	C	50
4	18Q75A0116	SADHU VAMSI	C	50
5	18Q75A0117	SURI PAVAN KALYAN	C	50
6	18Q75A0118	SURI RAJA RAO	C	50
7	18Q75A0119	VASAMSETTI PAVAN KUMAR	C	50



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8	18Q75A0120	VOONA PAVAN KUMAR	C	50
9	18Q75A0121	VYASALAPU SUNNY DEEPAK	C	50
10	18Q75A0122	YALLA SAI VENKATA JAGADEESH	C	50

SL.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q71A0101	B BISWAJITH	D	60
2	18Q71A0104	CH SUCHITRA	D	60
3	18Q71A0106	J DEVI	D	60
4	18Q71A0108	K SHYAM KUMAR RAJU	D	60
5	18Q71A0109	N PRASANTH	D	60
6	18Q71A0111	P SANTOSH	D	60
7	18Q71A0113	R BHARATH SURYA	D	60
8	18Q71A0114	S SHYMANTH PRASAD	D	60
9	18Q71A0115	T TEJASWINI	D	60
10	19Q75A0101	A RAVINDRA	D	60

SL.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q75A0103	B SAI GANESH	E	60
2	19Q75A0106	J NEELIMA	E	60
3	19Q75A0107	G CHANDRA SEKHAR	E	60
4	19Q75A0108	K S RADHA KRISHNA	E	60
5	19Q75A0109	K PAVAN KUMAR	E	60
6	19Q75A0110	K SAI TEJA	E	60
7	19Q75A0111	K SATISH	E	60
8	19Q75A0113	M ANAND	E	60
9	19Q75A0114	M BHARATH	E	60
10	19Q75A0117	P SAI CHANDU	E	60

SL.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q75A0118	P JEEVAN KUMAR	F	80
2	19Q75A0119	R RAJU	F	80
3	19Q75A0120	S RAJU	F	80
4	19Q75A0121	S NAGESWARA RAO	F	80
5	19Q75A0122	S RAM SAI	F	80
6	19Q75A0123	S VAMSI	F	80
7	19Q75A0124	T INDRAVATHI	F	80

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6	19Q75A0123	S Vamsi	F	80
7	19Q75A0124	T Indravathi	F	80
8	19Q75A0125	Y Anusha	F	80
9	19Q71A0101	Chetla Saraswathi	F	80
10	19Q71A0102	Chandana Pandi	F	80

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q71A0103	Ellipilli Srinuvas	G	30
2	19Q71A0104	G Mithun Krishnan	G	30
3	19Q71A0105	Jestadi Tharun	G	30
4	19Q71A0106	G. Hemanth Bhuvan Chand	G	30
5	19Q71A0107	Mallareddy Lokesh	G	30
6	19Q71A0108	Menda Koteswara Rao	G	30
7	19Q71A0109	Mudili Guna Shekar	G	30
8	19Q71A0110	Ommi Pavan Kumar	G	30
9	19Q71A0111	Pediredla Lokesh	G	30
10	19Q71A0112	Reddi Chandra Mouli	G	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q71A0115	Vanjari Anusha	H	40
2	20Q75A0101	Boni Vijay Kumar	H	40
3	20Q75A0102	Seeku Ramyasri	H	40
4	20Q75A0103	Mandadi Rakesh Kumar Reddy	H	40
5	20Q75A0104	Kuracha Teja	H	40
6	20Q75A0105	Marrapu Manikanta	H	40
7	20Q75A0106	Masabattula Satyannarayana	H	40
8	20Q75A0107	Pallela Vinay	H	40
9	20Q75A0108	Pilli Murali	H	40
10	20Q75A0109	Bandaru Manohar	H	40

Result: After the analysis of student's performance in Quiz program as listed above, the winner was announced by HOD: Group F

*P. Lakshmi*  
HOD-CIV



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Report on Group discussion on "HVDC Transmission"

Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: IV/II

Subject Name: HVDC Transmission

Date: 21/12/2021

Subject code: EC852PE

EEE. department conducted a group discussion on " HVDC Transmission " for IV year students. 47 members have participated in the event. This program was organized by the concern faculty V.SUDHAKAR, Assistant Prof/department of Electrical Engineering.

The total strength was divided into 8 groups. The event was started with an introduction given by the concern faculty as the term " **HVDC Transmission** " refers to the what do you understand by the term, the HVDC.

The HVDC is (also called a power superhighway or an electrical superhighway) uses direct current (DC) for electric power transmission, in contrast with the more common alternating current (AC) transmission systems.

During the session all the students were actively involved and gained knowledge about the above said topic. Marks were awarded out of 10 by the concern faculty and the best team was selected as the winner. This was done to motivate the students and make ready for the next challenge.



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Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: IV/II

Subject Name: HVDC Transmission

Date: 21/12/2021

Subject code: EC852PE

EEE. department conducted a group discussion on " HVDC Transmission " for IV year students. 47 members have participated in the event. This program was organized by the concern faculty V.SUDHAKAR, Assistant Prof/department of Electrical Engineering.

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The HVDC is (also called a power superhighway or an electrical superhighway) uses direct current (DC) for electric power transmission, in contrast with the more common alternating current (AC) transmission systems.

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Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: IV/II

Subject Name: HVDC Transmission

Date: 21/12/2021

S.NO	REGD. NO	GROUP	MARKS
1	17Q71A0203	A	9
2	17Q71A0204	A	8
3	17Q71A0205	A	9
4	17Q71A0206	A	9
5	17Q71A0207	A	9
6	17Q71A0208	A	8
7	17Q71A0209	A	9
8	17Q71A0210	A	9
9	17Q71A0211	A	8
10	17Q71A0212	A	8

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0213	B	9
2	17Q71A0214	B	8
3	17Q71A0215	B	8
4	17Q71A0216	B	9
5	18Q75A0203	B	9
6	18Q75A0204	B	8
7	18Q75A0205	B	9
8	18Q75A0206	B	9
9	18Q75A0207	B	9
10	18Q75A0208	B	8



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S.NO	PIN NO	GROUP	MARKS
1	18Q75A0209	C	8
2	18Q75A0210	C	8
3	18Q75A0212	C	9
4	18Q75A0213	C	9
5	18Q75A0214	C	8
6	18Q75A0216	C	9
7	18Q75A0217	C	8
8	18Q75A0218	C	9
9	18Q75A0220	C	9
10	18Q75A0221	C	9

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0223	D	9
2	18Q75A0224	D	9
3	18Q75A0225	D	8
4	18Q75A0226	D	8
5	18Q75A0227	D	8
6	18Q75A0228	D	9
7	18Q75A0229	D	9
8	18Q75A0230	D	9
9	18Q75A0231	D	9
10	18Q75A0232	D	9

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0233	E	9
2	18Q75A0234	E	9
3	18Q75A0235	E	9
4	18Q75A0237	E	8
5	18Q75A0238	E	8
6	18Q75A0240	E	9
7	18Q75A0241	E	9

Result: After the analysis of student's performance in group discussion, the winner was announced by HOD: Group B.

HOD-EEE

Head of The Department  
Department of Electrical and Electronics Engineering  
Avanathi Institute of Engg. & Tech.  
Cherukupally (V), Chittavalasa (SAO)  
Bhogapuram (M), Vizianagaram(Dist)-531163

Avanathi Institute of Engineering and Technology



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## **DEPARTMENT OF MECHANICAL ENGINEERING**

### **Report on Group discussion on "Industrial Robotics"**

Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: IV/II

Subject Name: **Industrial Robotics**

Date: 21/12/2021

MECH. department conducted a group discussion on "**Industrial Robotics**" for IV year students. 78 members have participated in the event. This program was organized by the concern faculty Dr.Avinash Ben, Prof/department of Mechanical Engineering.

The total strength was divided into 8 groups. The event was started with an introduction given by the concern faculty as the term "**Industrial Robotics**" refers to the what do you understand by the term, the robotics.

The robotics is a combined branch of engineering and science which deals with the study of development, operation, and control of intelligent robots. The robotics is a part of Artificial intelligence. The robotics technology is used for the development of machines which can perform a complex human task in a very efficient way.

During the session all the students were actively involved and gained knowledge about the above said topic. Marks were awarded out of 10 by the concern faculty and the best team was selected as the winner. This was done to motivate the students and make ready for the next challenge.



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Timings: 2:20 pm to 3:10pm  
Subject Name: **Industrial Robotics**

B.Tech Year/Semester: IV/II  
Date: 21/12/2021

S.NO	PIN NO	GROUP	MARKS
1	16Q71A0330	A	9
2	16Q71A0332	A	8
3	17Q71A0301	A	9
4	17Q71A0302	A	9
5	17Q71A0303	A	9
6	17Q71A0304	A	8
7	17Q71A0305	A	9
8	17Q71A0308	A	9
9	17Q71A0309	A	8
10	17Q71A0311	A	8

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0313	B	9
2	17Q71A0314	B	8
3	17Q71A0315	B	8
4	17Q71A0316	B	9
5	17Q71A0317	B	9
6	17Q71A0318	B	8
7	17Q71A0319	B	9
8	17Q71A0320	B	9
9	17Q71A0321	B	9
10	17Q71A0322	B	8

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0324	C	8
2	17Q71A0325	C	8
3	17Q71A0326	C	9
4	17Q71A0328	C	9
5	17Q71A0329	C	8
6	17Q71A0330	C	9
7	17Q71A0331	C	8
8	17Q71A0332	C	9
9	17Q71A0334	C	9
10	17Q71A0336	C	9



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S.NO	PIN NO	GROUP	MARKS
1	17Q71A0338	D	9
2	17Q71A0339	D	9
3	17Q71A0340	D	8
4	17Q71A0342	D	8
5	17Q71A0343	D	8
6	17Q71A0344	D	9
7	17Q71A0348	D	9
8	17Q71A0349	D	9
9	17Q71A0350	D	9
10	17Q71A0351	D	9

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0352	E	9
2	17Q71A0353	E	9
3	17Q71A0354	E	9
4	17Q71A0355	E	8
5	17Q71A0356	E	8
6	17Q71A0357	E	9
7	17Q71A0358	E	9
8	17Q71A0359	E	9
9	17Q71A0360	E	8
10	17Q71A0361	E	8
11	17Q71A0362	E	8

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0301	F	9
2	18Q75A0302	F	8
3	18Q75A0304	F	9
4	18Q75A0305	F	9
5	18Q75A0306	F	8
6	18Q75A0307	F	8
7	18Q75A0308	F	9
8	18Q75A0309	F	8
9	18Q75A0310	F	9
10	18Q75A0311	F	9

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S.NO	PIN NO	GROUP	MARKS
1	18Q75A0312	G	9
2	18Q75A0313	G	8
3	18Q75A0314	G	9
4	18Q75A0315	G	8
5	18Q75A0316	G	9
6	18Q75A0317	G	9
7	18Q75A0318	G	8
8	18Q75A0319	G	8
9	18Q75A0320	G	9
10	18Q75A0321	G	9

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0322	H	9
2	18Q75A0324	H	9
3	18Q75A0328	H	9
4	18Q75A0329	H	8
5	18Q75A0330	H	8
6	18Q75A0331	H	8
7	18Q75A0332	H	9
8	18Q75A0333	H	9
9	18Q75A0334	H	9
10	18Q75A0335	H	9

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0336	I	9
2	18Q75A0337	I	9
3	18Q75A0338	I	9
4	18Q75A0340	I	8
5	18Q75A0341	I	8
6	18Q75A0342	I	9
7	18Q75A0343	I	9
8	18Q75A0344	I	8
9	18Q75A0345	I	8
10	18Q75A0346	I	8



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S.NO	PIN NO	GROUP	MARKS
1	18Q75A0336	I	9
2	18Q75A0337	I	9
3	18Q75A0338	I	9
4	18Q75A0340	I	8
5	18Q75A0341	I	8
6	18Q75A0342	I	9
7	18Q75A0343	I	9
8	18Q75A0344	I	8
9	18Q75A0345	I	8
10	18Q75A0346	I	8

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0347	J	10
2	18Q75A0348	J	10
3	18Q75A0349	J	10
4	18Q75A0350	J	10
5	18Q75A0351	J	10
6	18Q75A0352	J	10
7	18Q75A0353	J	10
8	18Q75A0355	J	10
9	18Q75A0356	J	10
10	18Q75A0357	J	10

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0358	K	10
2	18Q75A0359	K	9
3	18Q75A0360	K	9
4	18Q75A0361	K	9
5	18Q75A0362	K	9
6	18Q75A0363	K	9
7	18Q75A0364	K	8
8	18Q75A0365	K	9
9	18Q75A0366	K	9
10	18Q75A0367	K	9



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S.NO	PIN NO	GROUP	MARKS
1	18Q75A0369	L	9
2	18Q75A0370	L	9
3	18Q75A0371	L	8
4	18Q75A0372	L	8
5	18Q75A0373	L	8
6	18Q75A0374	L	9
7	18Q75A0375	L	9
8	18Q75A0376	L	8
9	18Q75A0377	L	9
10	18Q75A0378	L	9

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0379	M	9
2	18Q75A0380	M	9
3	18Q75A0381	M	9
4	18Q75A0382	M	9
5	18Q75A0383	M	8
6	18Q75A0384	M	8
7	18Q75A0385	M	9
8	18Q75A0386	M	9
9	18Q75A0387	M	9
10	18Q75A0388	M	9

S.NO	PIN NO	GROUP	MARKS
1	18Q75A0389	N	9
2	18Q75A0390	N	9
3	18Q75A0391	N	9
4	18Q75A0392	N	9
5	18Q75A0393	N	8
6	18Q75A0394	N	8
7	18Q75A0395	N	9
8	18Q75A0396	N	9
9	18Q75A0397	N	9



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10	18Q75A03A0	N	9
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S.NO	PIN NO	GROUP	MARKS
1	18Q75A03A2	O	9
2	18Q75A03A3	O	9
3	18Q75A03A4	O	8
4	18Q75A03A5	O	8
5	18Q75A03A6	O	8
6	18Q75A03A7	O	9
7	18Q75A03A8	O	9
8	18Q75A03A9	O	8
9	18Q75A03B0	O	9
10	18Q75A03B2	O	9

S.NO	PIN NO	GROUP	MARKS
1	18Q75A03B3	P	9
2	18Q75A03B4	P	9
3	18Q75A03B6	P	9
4	18Q75A03B7	P	8
5	18Q75A03B8	P	8
6	18Q75A03B9	P	9
7	18Q75A03C0	P	9
8	18Q75A03C1	P	8
9	18Q75A03C3	P	8
10	18Q75A03B3	P	9

Result: After the analysis of student's performance in group discussion, the winner was announced by HOD: Group J.

  
**HOD-MECH**  
MECHANICAL DEPARTMENT  
AVANTHI INSTITUTE OF ENGG. & TEC  
Bhogapuram (M), Vizianagaram (Dist.)



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Report on Group discussion on "Cellular and Mobile Communications"**

Timings: 1:30 pm to 2:30 pm

B.Tech Year/Semester: IV/II

Subject Name: **Cellular and Mobile Communications**

Date: 21/12/2021

Subject code: **R1642041**

ECE. Department conducted a group discussion on "**Cellular and Mobile Communications**" for IV year students. 110 members have participated in the event. This program was organized by the concern faculty Mr.V.Siva Bhaskara Rao, Associate Prof/department of Electronics and Communication Engineering.

The total strength was divided into 13 groups. The event was started with an introduction given by the concern faculty as the term "**Cellular and Mobile Communications**" refers to the what do you understand by the term, the "**Mobile Communications**"

Cellular communication is a form of communication technology that enables the use of mobile phones. A mobile phone is a bidirectional radio that enables simultaneous transmission and reception. Cellular communication is based on the geographic division of the communication coverage area into cells, and within cells.

During the session all the students were actively involved and gained knowledge about the above said topic. Marks were awarded out of 10 by the concern faculty and the best team was selected as the winner. This was done to motivate the students and make ready for the next challenge.



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Report on Group discussion on "Cellular and Mobile Communications"**

**Timings: 2:30 pm to 3:20pm**

**B.Tech Year/Semester: IV/II**

**Subject Name: Cellular and Mobile Communications**

**Date: 21/12/2021**

**Subject code: R1642041**

S.NO	REGD. NO	GROUP	MARKS	S.NO	PIN NO	GROUP	MARKS
1	15Q71A0479	A	9	1	17Q71A0409	B	9
2	17Q71A0402	A	8	2	17Q71A0410	B	8
3	17Q71A0403	A	9	3	17Q71A0411	B	8
4	17Q71A0405	A	9	4	17Q71A0412	B	9
5	17Q71A0408	A	9	5	17Q71A0413	B	9
S.NO	PIN NO	GROUP	MARKS	S.NO	PIN NO	GROUP	MARKS
1	17Q71A0414	C	8	1	17Q71A0420	D	9
2	17Q71A0415	C	8	2	17Q71A0422	D	9
3	17Q71A0416	C	9	3	17Q71A0423	D	8
4	17Q71A0417	C	9	4	17Q71A0424	D	8
5	17Q71A0419	C	8	5	17Q71A0425	D	8
S.NO	PIN NO	GROUP	MARKS	S NO	PIN NO	GROUP	MARKS
1	17Q71A0427	E	9	1	17Q71A0432	F	9
2	17Q71A0428	E	9	2	17Q71A0433	F	8
3	17Q71A0429	E	9	3	17Q71A0434	F	9
4	17Q71A0430	E	8	4	17Q71A0435	F	9
5	17Q71A0431	E	8	5	17Q71A0436	F	8
S.NO	PIN NO	GROUP	MARKS	S.NO	PIN NO	GROUP	MARKS
1	17Q71A0437	G	9	1	17Q71A0442	H	9
2	17Q71A0438	G	8	2	17Q71A0443	H	9
3	17Q71A0439	G	9	3	17Q71A0445	H	9
4	17Q71A0440	G	8	4	17Q71A0446	H	8
5	17Q71A0441	G	9	5	17Q71A0447	H	8
S.NO	PIN NO	GROUP	MARKS	S.NO	PIN NO	GROUP	MARKS
1	17Q71A0449	I	9	1	17Q71A0454	J	10
2	17Q71A0450	I	9	2	17Q71A0455	J	10



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Report on Group discussion on "Network Security"

Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: IV/I

Subject Name: Cryptography and Network Security

Date: 21/12/2020

Subject code: CS4101

CSE. Department conducted a group discussion on " Network Security " for IV year students. 78 members have participated in the event. This program was organized by the concern faculty Dr.Gandi Satyanarayana, Prof/department of Computer Science Engineering.

The total strength was divided into 8 groups. The event was started with an introduction given by the concern faculty as the term "Network Security" refers to the what do you understand by the term, the Network Security.

Network security is a set of technologies that protects the usability and integrity of a company's infrastructure by preventing the entry or proliferation within a network of a wide variety of potential threats

During the session all the students were actively involved and gained knowledge about the above said topic. Marks were awarded out of 10 by the concern faculty and the best team was selected as the winner. This was done to motivate the students and make ready for the next challenge.



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S.NO	PIN NO	GROUP	MARKS
1	17Q71A0586	C	8
2	17Q71A0587	C	8
3	17Q71A0590	C	9
4	17Q71A0591	C	9
5	17Q71A0592	C	8
6	17Q71A0593	C	9
7	17Q71A0594	C	8
8	17Q71A0595	C	9
9	17Q71A0596	C	9
10	17Q71A0597	C	9

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0551	D	9
2	17Q71A0553	D	9
3	17Q71A0554	D	8
4	17Q71A0555	D	8
5	17Q71A0556	D	8
6	17Q71A0557	D	9
7	17Q71A0558	D	9
8	17Q71A0559	D	9
9	17Q71A0560	D	9
10	17Q71A0561	D	9

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0539	E	9
2	17Q71A0540	E	9
3	17Q71A0541	E	9
4	17Q71A0543	E	8
5	17Q71A0545	E	8
6	17Q71A0547	E	9
7	17Q71A0548	E	9
8	17Q71A0549	E	9
9	17Q71A0550	E	8
10	17Q71A0518	E	8
11	17Q71A0551	E	8

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S NO	PIN NO	GROUP	MARKS
1	17Q71A0501	<i>F</i>	9
2	17Q71A0503	<i>F</i>	8
3	17Q71A0504	<i>F</i>	9
4	17Q71A0505	<i>F</i>	9
5	17Q71A0506	<i>F</i>	8
6	17Q71A0511	<i>F</i>	8
7	17Q71A0512	<i>F</i>	9
8	17Q71A0515	<i>F</i>	8
9	17Q71A0516	<i>F</i>	9
10	17Q71A0518	<i>F</i>	9

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0519	G	9
2	17Q71A0520	G	8
3	17Q71A0521	G	9
4	17Q71A0522	G	8
5	17Q71A0523	G	9
6	17Q71A0524	G	9
7	17Q71A0526	G	8
8	17Q71A0527	G	8
9	17Q71A0529	G	9
10	17Q71A0530	G	9

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0531	H	9
2	17Q71A0532	H	9
3	17Q71A0533	H	9
4	17Q71A0534	H	8
5	17Q71A0535	H	8
6	17Q71A0536	H	8
7	17Q71A0537	H	9
8	17Q71A0538	H	9
9	17Q71A0539	H	9
10	17Q71A0540	H	9



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S.NO	PIN NO	GROUP	MARKS
1	17Q71A0541	I	9
2	17Q71A0543	I	9
3	17Q71A0545	I	9
4	17Q71A0547	I	8
5	17Q71A0548	I	8
6	17Q71A0549	I	9
7	17Q71A0550	I	9
8	17991A0518	I	8
9	17Q71A0551	I	8
10	17Q71A0553	I	8

S.NO	PIN NO	GROUP	MARKS
1	17Q71A0554	J	10
2	17Q71A0555	J	10
3	17Q71A0556	J	10
4	17Q71A0557	J	10
5	17Q71A0558	J	10
6	17Q71A0559	J	10
7	17Q71A0560	J	10
8	17Q71A0561	J	10
9	17Q71A0562	J	10
10	17Q71A0563	J	10

Result: After the analysis of student's performance in group discussion, the winner was announced by HOD: Group D.

  
HOD-CSE



**DEPARTMENT OF MANAGEMENT STUDIES**

**Report on Group discussion on “strategies and competitive advantages in diversified companies”**

Timings: 2:20 pm to 3:10pm

MBA Year/Semester: II/I

Subject Name: **strategic management**

**Date: 21/12/2021**

MBA. department conducted a group discussion on "strategies and competitive advantages in diversified companies" for II year students. 63 members have participated in the event. This program was organized by the concern faculty Dr V Sai prasanth, HOD/department of Management studies.

The total strength was divided into 9 groups. The event was started with an introduction given by the concern faculty as the term "strategic management" refers to the what do you understand by the term, the strategic management in organisation.

The purpose of having a competitive advantage is to distinguish a company from its competitors by offering something different and of superior value to its customers. Competitive advantage also means the business can outperform its competition in the market and make a higher profit.

Strategic management is the ongoing planning, monitoring, analysis and assessment of all necessities an organization needs to meet its goals and objectives. Changes in business environments will require organizations to constantly assess their strategies for success.



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Report on Group discussion on "**strategies and competitive advantages in diversified companies**"

Timings: 2:20 pm to 3:10pm

MBA II Year/Semester: I/II

Subject Name: strategic management

Date: 21/12/2020

S.NO	REGD. NO	GROUP	MARKS
1	19Q71E0001	A	9
2	19Q71E0002	A	8
3	19Q71E0003	A	9
4	19Q71E0004	A	9
5	19Q71E0005	A	9
6	19Q71E0006	A	8
7	19Q71E0007	A	9

S.NO	PIN NO	GROUP	MARKS
1	19Q71E0008	B	10
2	19Q71E0009	B	10
3	19Q71E0010	B	10
4	19Q71E0011	B	10
5	19Q71E0012	B	10
6	19Q71E0013	B	10
7	19Q71E0014	B	10

S.NO	PIN NO	GROUP	MARKS
1	19Q71E0015	C	8
2	19Q71E0016	C	8
3	19Q71E0017	C	9
4	19Q71E0018	C	9
5	19Q71E0019	C	8
6	19Q71E0020	C	9
7	19Q71E0021	C	8



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S.NO	PIN NO	GROUP	MARKS
1	19Q71E0024	D	9
2	19Q71E0025	D	9
3	19Q71E0026	D	8
4	19Q71E0027	D	8
5	19Q71E0028	D	8
6	19Q71E0029	D	9
7	19Q71E0030	D	9

S.NO	PIN NO	GROUP	MARKS
1	19Q71E0033	<i>E</i>	9
2	19Q71E0034	<i>E</i>	9
3	19Q71E0035	<i>E</i>	9
4	19Q71E0036	<i>E</i>	8
5	19Q71E0037	<i>E</i>	8
6	19Q71E0038	<i>E</i>	9
7	19Q71E0039	<i>E</i>	9

SNO	PIN NO	<i>GROUP</i>	MARKS
1	19Q71E0041	<i>F</i>	9
2	19Q71E0042	<i>F</i>	8
3	19Q71E0043	<i>F</i>	9
4	19Q71E0046	<i>F</i>	9
5	19Q71E0047	<i>F</i>	8
6	19Q71E0048	<i>F</i>	8
7	19Q71E0049	<i>F</i>	9

S.NO	PIN NO	GROUP	MARKS
1	19Q71E0052	G	9
2	19Q71E0053	G	8
3	19Q71E0054	G	9
4	19Q71E0055	G	8
5	19Q71E0056	G	9
6	19Q71E0058	G	9
7	19Q71E0059	G	8



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S.NO	PIN NO	GROUP	MARKS
1	19Q71E0061	H	9
2	19Q71E0062	H	9
3	19Q71E0063	H	9
4	19Q71E0064	H	8
5	19Q71E0065	H	8
6	19Q71E0066	H	8
7	19Q71E0067	H	9

S.NO	PIN NO	GROUP	MARKS
1	19Q71E0074	I	9
2	19Q71E0075	I	9
3	19Q71E0076	I	9
4	19Q71E0077	I	8
5	19Q71E0078	I	8
6	19Q71E0079	I	9
7	19Q71E0080	I	9

S.NO	PIN NO	GROUP	MARKS
1	19Q71E00A5	J	9
2	19Q71E00A6	J	8
3	19Q71E00A7	J	9
4	19Q71E00B2	J	9
5	19Q71E00B3	J	9
6	19Q71E00B9	J	8
7	19Q71E00C0	J	9

Result: After the analysis of student's performance in group discussion, the winner was announced by HOD: Group B.

**HOD-MBA**  
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**PROFESSIONAL ACTIVITIES (ISTE)**

**DEPARTMENT OF CIVIL ENGINEERING**

Professional Society Activities

Academic Year: 2020-21

**Seminar/Webinar/training program/Workshops organized by Professional Chapter:**

S.NO	DATE	NAME OF THE PROGRAM	RESOURCE PERSON	NO OF STUDENTS PARTICIPATED
1	1-12-2020	Guest Lecture on Remote Sensing and GIS Applications	G. Srinivasarao	30
2	03-02-2021	Guest Lecture on Pre-stressed Concrete	Dr. S. Adhishesu	31
3	27-01-2021	Guest Lecture on Design and Drawing of Reinforced Concrete Structures	Dr. K. Rajasekhar	39
4	08-03-2021	Guest Lecture on Water Resource Engineering -I	G. Srinivasarao	38
5	27-01-2021	Guest Lecture on Strength of Materials-I	Dr. S. Adhishesu	22
6	10-03-2021	Guest Lecture on Transportation Engineering - II	Dr. K. Rajasekhar	23



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3	17Q71A0451	I	9	3	17Q71A0457	J	10
4	17Q71A0452	I	8	4	17Q71A0459	J	10
5	17Q71A0453	I	8	5	17Q71A0460	J	10
<b>S.NO</b>	<b>PIN NO</b>	<b>GROUP</b>	<b>MARKS</b>	<b>S.NO</b>	<b>PIN NO</b>	<b>GROUP</b>	<b>MARKS</b>
1	17Q71A0461	K	10	1	17Q71A0468	L	9
2	17Q71A0462	K	9	2	17Q71A0469	L	9
3	17Q71A0463	K	9	3	18Q75A0401	L	8
4	17Q71A0465	K	9	4	18Q75A0403	L	8
5	17Q71A0466	K	9	5	18Q75A0404	L	8
<b>S.NO</b>	<b>PIN NO</b>	<b>GROUP</b>	<b>MARKS</b>				
1	18Q75A0405	M	9				
2	18Q75A0406	M	9				
3	18Q75A0407	M	9				
4	18Q75A0408	M	9				
5	18Q75A0409	M	8				

Result: After the analysis of student's performance in group discussion, the winner was announced by HOD: Group J.

**Head of the Department**  
**Electronics & Communication Engineering**  
**AVANTHI INSTITUTE OF ENGG. & TECH**  
**HOD-ECE**  
Cherukupally (Vill), Bhogapuram (M)  
VIZIANAGARAM (DIST)



Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: IV/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Guest Lecture on “Pre-stressed Concrete”
Date of the Event	03-02-2021
Coordinator(s)	Mrs. M. Sumathi
Convenor	Mr. R. venkatesh
Resource Persons	Dr. S. ADHISHESU
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	31
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and Principal too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on A pre-stressed concrete structure is different from a conventional reinforced concrete structure due to the application of an initial load on the structure prior to its use. Totally 31 members participated in this seminar. The initial load or ‘pre-stress’ is applied to enable the structure to counteract the stresses arising during its service period. The pre-stressing of a structure is not the only instance of pre-stressing. The concept of pre-stressing existed before the applications in concrete. Two examples of pre-stressing before the development of pre-stressed concrete are provided.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: III/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Guest Lecture on Water Resource Engineering -I
Date of the Event	08-03-2021
Coordinator(s)	P. S. S. BNHARADWAJ
Convener	Mr. R. venkatesh
Resource Persons	G. SRINIVASARAO
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	38
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and Principal too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Water Resource Engineering. Totally 38 members participated in this lecture. Those who are looking for core jobs in for CIVIL. They discuss the irrigation structures and there working. In today's era, the pace of evolution is faster than ever. We see that progress in technology so rapidly nowadays. It is the science of designing, developing and managing projects and systems to protect and use water resources in a sustainable and efficient manner. This includes the design, construction and operation of water supply systems, and flood control, and water quality, and water resources management.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: II/II

ACTIVITY REPORT	
Name of the Event	Guest Lecture on Transportation Engineering - II
Date of the Event/ Time	10-03-2021
Coordinator(s)	Mr. T. Harish
Convener	Mr. R. Venkatesh
Resource Persons	Dr. K. RAJASEKHAR
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	23
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and Principal too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Transportation Engineering. Totally 23 members participated in this lecture. The guest also discussed about railway, air ways and water ways in his point of view. Railroad engineering is an interdisciplinary engineering field dedicated to building better, faster, more efficient rail systems. The railroad industry uses these special engineers to care for and plan railway systems that can transport goods and people.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: IV/I

ACTIVITY REPORT	
Name of the Event	Guest Lecture on Remote Sensing and GIS Applications
Date of the Event/ Time	1-12-2020
Coordinator(s)	Mrs. M. Sumathi
Convener	Mr. R. Venkatesh
Resource Persons	G. SRINIVASARAO
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	30
Description	<p>The speaker for guest lecture has warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Madam too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Remote Sensing and GIS Applications. The production of municipal solid waste has increased noticeably during the recent past due to the mounting global population and fast urbanization. Furthermore, its poor management and inappropriate disposal are a global challenge since these have created environmental problems in urban ecosystems. Waste management problems are significantly stalled because of a lack of quality data. This is particularly the case in developing countries where observation infrastructure is weak. Regional waste management strategies involve distributed data, while typical small-scale studies present just point information and in the lack of vital widespread information, the regional studies can't provide dependable results. With the materialization of new techniques such as remote sensing and GIS.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: III/I

ACTIVITY REPORT	
Name of the Event	Guest Lecture on Design and Drawing of Reinforced Concrete Structures
Date of the Event/ Time	27-01-2021
Coordinator(s)	P. S. S. BNHARADWAJ
Convenor	Mr. R. Venkatesh
Resource Persons	Dr. K. RAJASEKHAR
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	39
Description	The speaker for guest lecture has warm welcomed to the session on behalf of Avanthi Institute of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Madam too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Design and Drawing of Reinforced Concrete Structures. He explains Design and Drawing of Reinforced Concrete Structures is Limit state analysis and design of section for shear and torsion – concept of bond, anchorage and development length, I.S. code provisions. Design examples in simply supported and continuous beams, detailing Limit state design for serviceability for deflection, cracking and codal provision.

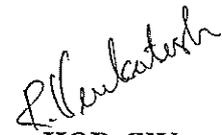


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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: II/I

ACTIVITY REPORT	
Name of the Event	Guest Lecture on Strength of Materials-I
Date of the Event/ Time	27-01-2021
Coordinator(s)	Mr. T. Harish
Convenor	Mr. R. Venkatesh
Resource Persons	Dr. S. ADHISHESU
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	22
Description	The speaker for guest lecture has warm welcomed to the session on behalf of Avanthi Institute of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Madam too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Strength of Materials. He explains Strength of materials is the discipline related to calculation of stresses and strains in structures and mechanical components. In statics, the concept of static equilibrium was defined and the difference between internal and external forces introduced.

  
HOD-CIV



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Academic Year: 2020-21

**Seminar/Webinar/training program/Workshops organized by Professional Chapter:**

S.NO	DATE	NAME OF THE PROGRAM	RESOURCE PERSON	NO OF STUDENTS PARTICIPATED
1.	13-02-2021	Guest lecture on <b>Micro Grid Analysis</b>	Dr.G.Rama Rao,Professor, Department of EEE,AITAM Tekkali	105



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: III/II

ACTIVITY REPORT	
Name of the Event	Guest lecture on <b>Micro Grid Analysis</b>
Date of the Event/ Time	13-02-2021
Coordinator(s)	B.Anand Swaroop & V.Sudhakar
Convener	Mr.A.Arjun Rao
Resource Persons	Dr.G.Rama Rao,Professor, Department of EEE,AITAM Tekkali
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	105
Description	<p>Department has conducted Guest Lecture on Micro Grid Analysis to enhance and upgrade the student's knowledge and skills.This program was organized by Dr.G.Rama Rao,Professor, Department of EEE,AITAM Tekkali . Coordinator of this event EEE. Resource Person introduced Applications, about industrial point of view and future scope. Microgrid is an important and necessary component of smart grid development. It is a small-scale power system with distributed energy resources. To realize the distributed generation potential, adopting a system where the associated loads and generation are considered as a subsystem or a microgrid is essential. In this article, a literature review is made on microgrid technology. The studies run on microgrid are classified in the two topics of feasibility and economic studies and control and optimization. The applications and types of microgrid are introduced first, and next, the objective of microgrid control is explained. Microgrid control is of the coordinated control and local control categories. The small signal stability and methods in improving it are discussed. The load frequency control in microgrids is assessed. A microgrid might have a number of connected distributed energy resources such as solar arrays, wind turbines, or fuel-burning generators to produce: electricity. large batteries and electric vehicles to store that electricity. hardware and software to monitor and distribute it.</p>

  
HOD-EEE

Head of The Department  
Department of Electrical and Electronics Engineering  
Avanthi Institute of Engg. & Tech.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram (Dist)-531163

Avanthi Institute of Engineering and Technology



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**DEPARTMENT OF MECHANICAL ENGINEERING**

Academic Year: 2020-21

**Seminar/Webinar/training program/Workshops organized by Professional Chapter:**

S.N O.	DATE	NAME OF THE PROGRAM	RESOURCE PERSON	NO OF STUDENTS PARTICIPATED
1	5/1/2021	Webinar On "Industrial Robotics"	Mr.P.Rama Krishna Bench Mark, Visakhapatnam	62
2	22/2/21	Work Shop On Ndt	Ndt Institute, Visakhapatnam	157
3	3/3/2021	Workshop On "Refrigeration And Air Conditioning Systems"	Mr.Khaleel National Engineers Visakhapatnam	92
4	5/3/2021	Seminar On "Ic Engines"	Dr.Jai Kumar, Gitam University Visakhapatnam	76
5	4/4/2021	Technical Seminar On "Computer Aided Process Planning"	Mr.Praveen Igat Institute, Viakhapatnam	134



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Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: IV/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Webinar on "INDUSTRIAL ROBOTICS"
Date of the Event	5/1/2021
Coordinator(s)	Mr.V.SARAN TEJ, MECH
Convenor	Ms.M.Lakshmi Sramika
Resource Persons	P.RAMA KRISHNA,BENCH MARK,VSKP
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	62
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Madam too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Latest Trends in Industrial Robotics &amp; MNC Job Opportunities. Robots will increase economic growth and productivity and create new career opportunities for many people worldwide. Industry is moving towards automation, increase in production and increase in accuracy of the products. All the developed and developing countries have started using Robots for the Automation and high volume of production of similar products. Totally 47 members participated in this seminar. In general, industrial robots are intended for manufacturing applications or tasks that may be dangerous. In these roles, industrial robots are often replacing human employees. By contrast, service robots have more varied applications, with uses in healthcare, hospitality, cleaning, and similar areas. This report presents the results of our seminar on "INDUSTRIAL ROBOTICS"</p>



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Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: III/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Work shop on "NDT"
Date of the Event	22/2/21
Coordinator(s)	Mrs.K.Deepthi, MECH
Convener	Ms.M.Lakshmi Sramika
Resource Persons	NDT INSTITUTE, VISAKHAPATNAM
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	157
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and Principal too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Advance VLSI Design and Methodology. Totally 45 members participated in this seminar. Those who are looking for core jobs in for Mechanical. they discuss the future of artificial intelligence. In today's era, the pace of evolution is faster than ever. We see that progress in technology so rapidly nowadays. Discussed the future of AI in fields of Finance, HealthCare, Education and Military applications, where it could affect both the ways either positive or negative. The increasing complexity and 'real-time requirements require new modeling techques as well as application of formal methods. This report presents the results of our seminar on AIED.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: III/II

ACTIVITY REPORT	
Name of the Event	Work shop on "REFRIGERATION AND AIR CONDITIONING SYSTEMS"
Date of the Event/ Time	30/03/2021
Coordinator(s)	Mr.Sheik.Hidayatulla Shariff,
Convener	Ms.M.Lakshmi Sramika
Resource Persons	M.Khaleel
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
In collaboration with	National Engineers, Visakhapatnam
No. of Beneficiaries	92
Description	<p>Department has conducted seminar on, "REFRIGERATION AND AIR CONDITIONING SYSTEM" to enhance and upgrade the student's knowledge and skills. This program was organized by Mr.SHEIK.HIDAYATULLA SHARIFF, Coordinator of this event MECH. Resource Person introduced about Applications, about industrial point of view and future scope. He also explained. About some cop method. Over the next few decades, the global demand for air conditioning is expected to skyrocket. According to the International Energy Agency. The scope of work of refrigeration and air-conditioning technician includes: Manufacture, install, and maintenance of household refrigeration and air conditioners such as refrigerators, freezers, freezers, and window air conditioners. Industrial refrigeration is used in many industries, from food processing, chemical, and pharmaceutical and plastics manufacturing to construction. Within these industries, water-cooled chillers play an important part in processes that require the cooling of a large amount of water. For the improvement in the level of understanding and to develop insight in various domains, R&amp;AC methods are organized for the learners in academic years. These methods will enhance the knowledge of the students and enable them to work with mini/major projects, apply for project contests: Students the member of club and participants are effectively participated and has felt happy for participating in this workshop.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: III/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Seminar on "IC ENGINES"
Date of the Event/ Time	22/2/2021
Coordinator(s)	Mr.G.RAMU, MECH
Convener	Ms.M.Lakshmi Sramika
Resource Persons	Dr.Jai Kumar, GITAM University, Viskhapatnam.
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	76
Description	<p>The speaker for guest lecture has warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Madam too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on IC ENGINES. Internal combustion engines (ICE) are the most common form of heat engines, as they are used in vehicles, boats, ships, airplanes, and trains. They are named as such because the fuel is ignited in order to do work inside the engine. The same fuel and air mixture is then emitted as exhaust. All new vehicles to run on cleaner energy (electric, hybrid, hydrogen fuel cell) from 2030, phase-out of internal combustion engines (from the entire population of motor vehicles) completed by 2040. New passenger car sales only. Commercial vehicles and motorcycles to continue to use petrol or diesel. In the future, internal combustion engines will evolve toward high efficiency, fixed operating conditions, simplicity and low cost, and they will be closely integrated with high-efficiency motors, transmissions and batteries, which will bring new development opportunities to the entire industry. This seminar was very fruitful and satisfactory to participant's enthusiasm. The targeted audiences were B.Tech students and MECH faculty members. Total 68 participants. Last 5 minutes were given for Q&amp;A session and few questions were raised by the students which were answered by the speaker. Mr.G.RAMU, Assistant professor of MECHANICAL Engineering department, ended the program by delivering vote of thanks.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: III/II

<b>ACTIVITY REPORT</b>	
\	Online Seminar on "Computer Aided Process Planning"
Date of the Event/ Time	4/4/2021
Coordinator(s)	Mr.G.A C RAMAJANEYULU, MECH
Convenor	Ms.M.Lakshmi Sramika
Resource Persons	Mr.Praveen-IGAT, Viskhapatnam.
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	134
Description	<p>The speaker for guest lecture has warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Madam too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on COMPUTER AIDED PROCESS PLANNING. He explains Computer-aided process planning is a pivotal element in the integration of information from design to actual manufacturing. It is common to use a feature-based CAD model-recognition system to process product characteristics in order to plan the manufacturing steps. CAPP can give more complete and detailed process plans. Process planning and production lead time is reduced. CAPP can give faster response to engineering changes. Greater process plan consistency is ensured. A CAPP system aims to automate the generation of process plans so that functions, such as process selection, tool selection, feature sequencing, and machine tool selection can be performed without human intervention. The system is composed of three parts: feature-based CAD module, incremental CAPP (ICAPP) module and product/process plan data model database. A product/process plan data model database provides a platform for recording and exchanging information about the product and process plan. The CAPP system is based on UG software, which is used as a platform of CAD/CAM system. A new way adopting the UG/API function to develop an interface between CAD and CAPP is employed to make feature extraction that can be transferred from CAD to CAPP. Students and participants are effectively participated and have felt happy for participating in this workshop.</p>

HOD-MECH

MECHANICAL DEPARTMENT  
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Bhogapuram (M), Vizianagaram (Dist.)

Avanthi Institute of Engineering and Technology



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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

Academic Year: 2020-21

**Seminar/Webinar/training program/Workshops organized by Professional Chapter:**

S.NO	DATE	NAME OF THE PROGRAM	RESOURCE PERSON	NO OF STUDENTS PARTICIPATED
1	4/3/2021	Seminar On "Digital Ic Design"	Dr.G.Anantha Rao Assistant Professor Dept. of ECE GMRIT	62



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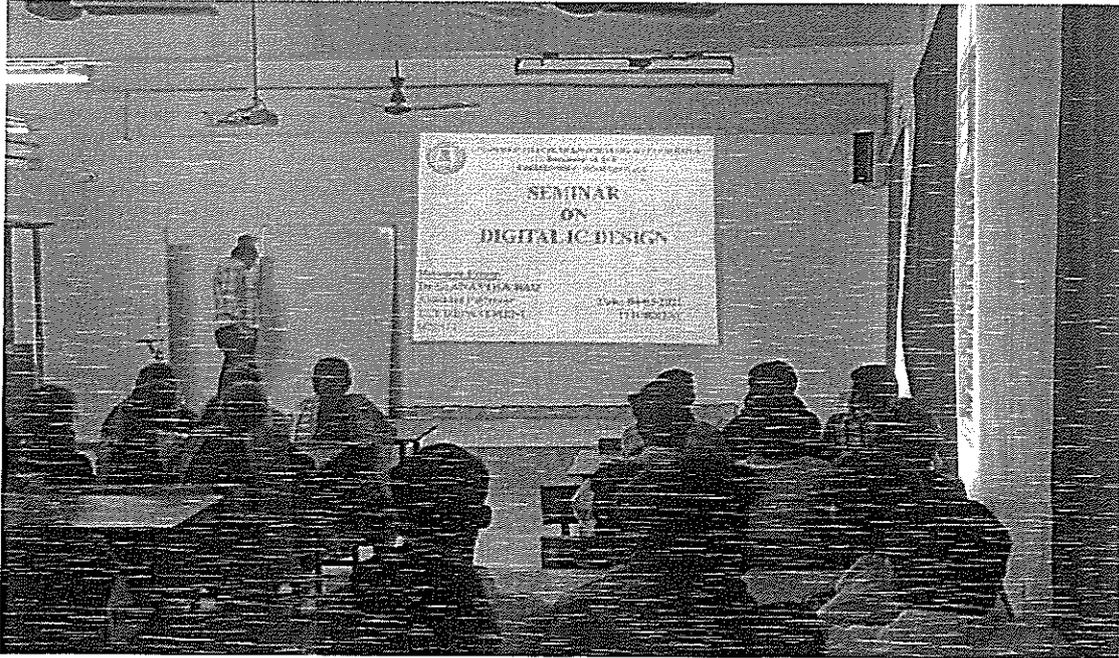
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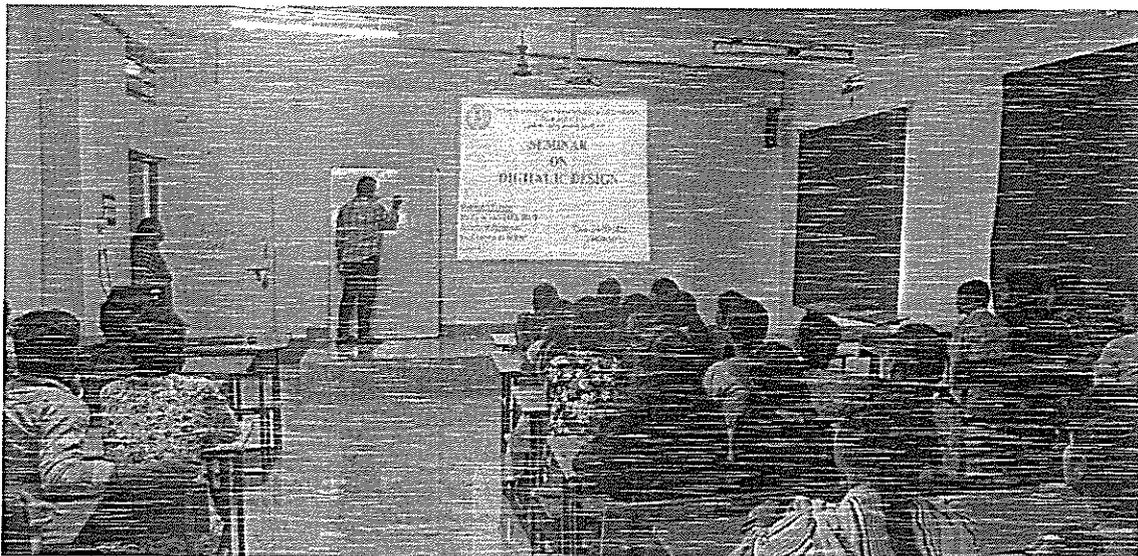
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**Proof:**



**Seminar on "Digital IC Design"**



**Seminar on "Digital IC Design"**



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**Timings: 1:30 pm to 2:30pm**

**B.Tech Year/Semester: IV/II**

<b>ACTIVITY REPORT</b>	
Name of the Event	<b>SEMINAR ON "DIGITAL IC DESIGN"</b>
Date of the Event	04-03-2021
Coordinator(s)	Mr.K.AVINASH KUMAR, ECE
Convenor*	Mr.V.Siva Bhaskar Rao, ECE
Resource Persons	Dr.G.Anantha Rao, Assistant Professor, Dept. of ECE, GMRIT
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	62
Description	<p>The speaker for seminar has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Latest Trends in Digital Ic Design &amp; Job Opportunities. Digital IC will increase economic growth and productivity and create new career opportunities for many people worldwide. Industry is moving towards automation, increase in production and increase in accuracy of the products. All the developed and developing countries have started using Digital Ic for the Automation and high volume of production of similar products. Totally 62 members participated in this seminar. In general, industrial robots are intended for manufacturing applications or tasks that may be dangerous. In these roles, Digital Ic are often replacing human employees. By contrast, Digital IC have more varied applications, with uses in many electronic devices and similar areas. This report presents the results of our seminar on "DIGITAL IC DESIGN"</p>

**Head of the Department**  
**Electronics & Communication Engineering**  
**AVANTHI INSTITUTE OF ENGG. & TECH**  
**Cherukupally, Bhogapuram (M)**  
**VIZIANAGARAM (DIST)**



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Academic Year: 2020-21

**Seminar/Webinar/training program/Workshops organized by Professional Chapter:**

S.N O.	DATE	NAME OF THE PROGRAM	RESOURCE PERSON	NO OF STUDENTS PARTICIPATED
1	11/18/2020	Guest lecture on Cryptography and Network security	Kishore, Anits	81
2	12/11/2020	Guest lecture on Big Data Analytics	Vamsi Krishna, MVGR	81
3	12/15/2020	Guest lecture on Compiler Design	Hari, Krishna College	98
4	1/1/2021	Guest lecture on Operating System	Sivaranjani, Anits	98
5	4-1-2021 to 8-1-2021	Workshop on Python Programming	Datapro visakhapatnam	186



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Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: IV/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Guest Lecture on "CRYPTOGRAPHY AND NETWORK SECURITY"
Date of the Event	11/18/2020
Coordinator(s)	Mrs.A.SWATHI, CSE
Convenor	Dr.A.Chandra Sekhar
Resource Persons	KISHORE, Anits, VSKP
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	81
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Sir too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Latest Trends in CRYPTOGRAPHY AND NETWORK SECURITY&amp; MNC Job Opportunities. Information security is one of the biggest concerns for businesses operating competitively in the modern business environment. When executed via the right strategies, cryptography helps you safeguard your intellectual property, preventing it from falling prey to cyber threats and threat actors. Totally 47 members participated in this seminar. Cryptography also supports the availability of data by guaranteeing that individuals with the right permission can use systems and retrieve data in a dependable and timely manner. This ensures that information systems are reliable and accessible. This report presents the results of our seminar on "CRYPTOGRAPHY AND NETWORK SECURITY"</p>



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Timings: 2:20 pm to 3:10pm

B.Tech Year/Semester: III/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Guest lecture on BIG DATA ANALYTICS
Date of the Event	12/11/2020
Coordinator(s)	B.Madhusudhana Rao, CSE
Convener	Dr.A.Chandra Sekhar
Resource Persons	Vamsi Krishna, MVGR
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	81
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and Principal too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on BIG DATA ANALYTICS. Totally 45 members participated in this seminar. Those who are looking for core jobs in for COMPUTER SCIENCE. They discuss the future of Big Data Analytics. Big data platforms and managed services offered by IT vendors combine many of those technologies in a single package, primarily for use in the cloud. Currently, that includes these</p> <ul style="list-style-type: none"><li>• Amazon EMR (formerly Elastic MapReduce)</li><li>• Cloudera Data Platform</li><li>• Google Cloud Dataproc</li><li>• HPE Ezmeral Data Fabric (formerly MapR Data Platform)</li></ul> <p>.This report presents the results of our seminar on BIG DATA ANALYTICS .</p>

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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: III/II

ACTIVITY REPORT	
Name of the Event	Guest Lecture on " COMPILER DESIGN "
Date of the Event/ Time	12/15/2020
Coordinator(s)	S.Kesava Rao, CSE
Convener	Dr.A.Chandra Sekhar
Resource Persons	Mr.Hari, Krishna College
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	98
Description	<p>Department has conducted seminar on, "COMPILER DESIGN " to enhance and upgrade the student's knowledge and skills. This program was organized by Mr. S.Kesava Rao, Coordinator of this event CSE. Resource Person introduced about Applications, about industrial point of view and future scope. Compiler design helps full implementation Of High-Level Programming Languages. Support optimization for Computer Architecture Parallelism. Design of New Memory Hierarchies of Machines. Widely used for Translating Programs. Compiler design principles provide an in-depth view of translation and optimization process. Compiler design covers basic translation mechanism and error detection &amp; recovery. It includes lexical, syntax, and semantic analysis as front end, and code generation and optimization as back-end. Studying compilers enables you to design and implement your domain-specific language. Learning compilers gives you theoretical and practical knowledge to implement a programming language. A study of compiler design teaches you how a large problem can be broken down and solved in a structured manner. In future, compilers will be able to statically analyze the code and choose the most appropriate data structure. For example, if an array is only used as stack (by calling push and pop methods), a linked list may be better than a hash table or an array.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: II/II

ACTIVITY REPORT	
Name of the Event	Guest lecture on Operating System "
Date of the Event/ Time	1/1/2021
Coordinator(s)	Mr.Vasantha Murali Krishna, CSE
Convener	Dr.A.Chandra Sekhar
Resource Persons	Mrs.Sivaranjani, Anits
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	98
Description	<p>The speaker for guest lecture has warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Madam too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on OPERATING SYSTEMS. The aim of a business operating system is to unify teams, clarify communication and promote a shared mission. This effort can lead to a more harmonious work environment that retains good employees and rewards them for their hard work, which will bring new development opportunities to the entire industry. This seminar was very fruitful and satisfactory to participant's enthusiasm. The targeted audiences were B.Tech students and CSE faculty members. Total 98 participants. Last 5 minutes were given for Q&amp;A session and few questions were raised by the students which were answered by the speaker. Mr. Vasantha Murali Krishna, Assistant professor of COMPUTER SCIENCE and Engineering department, ended the program by delivering vote of thanks.</p>



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Timings: 2:20 pm to 3:10pm

B.Tech. Year/Semester: III/II

ACTIVITY REPORT	
Name of the Event	Workshop on <b>PYTHON PROGRAMMING</b>
Date of the Event/ Time	4-1-2021 to 8-1-2021
Coordinator(s)	Mr.Surendra Kumar Chowdary, CSE
Convenor	Dr.A.Chandra Sekhar
Resource Persons	Datapro visakhapatnam
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	186
Description	<p>The speaker for guest lecture has warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Sir too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on PYTHON PROGRAMMING. He explains Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis. Python is a general-purpose language, meaning it can be used to create a variety of different programs and isn't specialized for any specific problems. AI &amp; Machine Learning It is widely thought that Python is the best programming language for Artificial Intelligence (AI) because of its syntaxes being simple and quickly learnt. Data Analytics Many of the most popular data mining and analytics tools are written in Python. As a result, it is an excellent tool for data science. Python's tools allow developers to separate important and relevant data. Not only is big data useful for retaining customers, but it can also help organizations learn more about themselves. Block chain While there may be a few popular languages for block chain development, including JavaScript, Java, C++, and more, Python is proving itself as a strong language..Students and participants are effectively participated and have felt happy for participating in this workshop.</p>

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**HOD-CSE**  
Cherukupally (V) Bhogapuram (M) Vizianagaram (D)-531162



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**DEPARTMENT OF MANAGEMENT STUDIES**

Professional Society Activities

Academic Year: 2020-21

**Seminar/Webinar/training program/Guest lectures organized by Department:**

S.NO	DATE	NAME OF THE PROGRAM	RESOURCE PERSON	NO OF STUDENTS PARTICIPATED
1	28/12/2020	Guest lecture on quantitative analysis for business decision	Dr G N P V Babu	56
2	30/04/2021	Guest lecture on research methodology	Dr P Sanjeevi	52
3	27/02/2021	Guest lecture on entrepreneurship	Dr P Manoj Babu	62
4	17/04/2021	Guest lecture on operational research	Dr soudhamini	60



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Timings: 2:20 pm to 3:10pm

MBA Year/Semester: IV/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Guest lecture on “research methodology”
Date of the Event	30/04/2021
Coordinator(s)	T Srinivas
Convenor	Dr V Sai Prashanth
Resource Persons	Dr P Sanjeevi
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	52
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal sir too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on Latest Trends in research methodology . research methodology gives research legitimacy and provides scientifically sound findings. It also provides a detailed plan that helps to keep researchers on track, making the process smooth, effective and manageable.. Methodology is crucial for any branch of scholarship because an unreliable method produces unreliable results and, as a consequence, undermines the value of your analysis of the findings. In most cases, there are a variety of different methods you can choose to investigate a research problem.. This report presents the results of our seminar on "RESEARCH METHODOLOGY"</p>



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Timings: 2:20 pm to 3:10pm

MBA Year/Semester: I/II

<b>ACTIVITY REPORT</b>	
Name of the Event	Guest lecture on: entrepreneurship"
Date of the Event	27/02/2021
Coordinator(s)	DR V Sai prashanth
Convener	Dr V Sai Prashanth
Resource Persons	Dr P Manoj babu
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	62
Description	<p>The speaker for guest lecture has been warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and Principal too welcomed him for the session on behalf of the college. The speaker took over the session and delivered a lecture on entrepreneurship education. Totally 62 members participated in this scminar. Those who are looking for become entrepreneurs. they discuss the future of entrepreneurs . In today's era, the pace of evolution is faster than ever. We see that progress in competitive business world so rapidly nowadays. Discussed the future of entrepreneurs fields of Finance, HealthCarc, marketing, where it could affect both the ways either positive or negative. The increasing complexity and 'real-time requirements require new modeling strategies as well as application of formal methods. This report presents the results of our seminar on entrepreneurship.</p>



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Timings: 2:20 pm to 3:10pm

MBA. IYear/Semester: I/I

ACTIVITY REPORT	
Name of the Event	Guest lecture on "quantitative analysis for business decision"
Date of the Event/ Time	28/12/2020
Coordinator(s)	SUMAN Datta
Convener	Dr V Sai Prashanth
Resource Persons	Dr G N P V Babu
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	56
Description	Department has conducted seminar on, "quantitative analysis for business decision " to enhance and upgrade the student's knowledge on quantitative analysis. This program was organized by Mr S Suman datta, Coordinator of this event MBA. Resource Person introduced about quantitative Applications, about business decisions of view and future scope. He also explained. About some variance method. Over the next few decades, the global demand for Improving business is expected to skyrocket. Quantitative analysis is using data from your business to determine its success. It helps you look at data to determine what needs to be changed in the company or what is working for the company. You can use quantitative analysis to make purchasing decisions, marketing decisions, and even sales decisions



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Timings: 2:20 pm to 3:10pm

MBA. Year/Semester: II/II

ACTIVITY REPORT	
Name of the Event	Guest lecture on "operational research"
Date of the Event/ Time	17/04/2021
Coordinator(s)	S P Santhoshi
Convener	Dr V Sai Prashanth
Resource Persons	Dr soudhamini
Organizing Dept./Support system	AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
No. of Beneficiaries	62
Description	<p>The speaker for guest lecture has warm welcomed to the session on behalf of Avanthi Institute Of Engineering and Technology, Chairman, Director, Principal, Head of the Department and students. The Head of the Department has given a brief introduction about the speaker achievements and experience and Principal Madam too welcomed her for the session on behalf of the college. The speaker took over the session and delivered a lecture on operational research Operational Research (OR) is the application of similar ideas to larger, more complex decisions that concern the operations of systems, such as businesses and networks of machines. Making these decisions using OR entails employing mathematical methods in order to solve a numerical version of the problem at hand.. The targeted audiences were MBA students and MBA faculty members. Total 70 participants. Last 5 minutes were given for Q&amp;A session and few questions were raised by the students which were answered by the speaker.S P Santhoshi, Assistant professor of MBA department, ended the program by delivering vote of thanks.</p>

Head of the Department  
Master of Business Administration  
Avanthi Institute of Engineering and Technology  
Cherukupally, Bhogapuram  
VIZIANAGARAM, Dist.  
HOD-MBA



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**C) Problem solving methodologies**

1. Each course handling faculties are giving Case Study topic related their subject for analysis and discussion.
2. Faculties are conducting subjects of highly analytical nature, with the objective to increase problem solving capabilities, analytical thinking and logical ability.
3. Faculties are support to the students to attempt and solve problems individually and independently.
4. For the tutorial session, a class is divided into two groups and faculty members are assigned to each group separately.
5. Giving assignments and quizzes at the end of instruction of each unit

All academic activities are aimed at elevating the students' knowledge, skills and build confidence in them.

**Problem Solving Methodologies**

- Quiz program
- Tutorials
- Problem solving classes
- Case studies



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## **QUIZ PROGRAM**

### **DEPARTMENT OF CIVIL ENGINEERING**

#### **Report on Quiz Program on "Civil Engineering, Current Affairs & General knowledge"**

Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B. Tech Year/Semester: All Students

Date: 26/02/2021

MR. R. Rohith, Assist. Prof, has conducted a Quiz Program for All year students 87 members have participated in the technical fest event. This program was organized under the guidance of Mr. R. Venkatesh, HOD, Civil Engineering.

The total strength was divided into 9 groups. The event was started by introducing about the Quiz program and giving instructions to the students, by the concern faculty. And then he started asking questions the students who knows the answer are giving answers.

Students are actively participated the program and they exposed to learn more beyond the subject. They are showing interest to attend this type of programs in our institution. They get motivated by the faculty to participate such programs.



1. In a liquid limit test, the moisture content at 10 blows was 70% and that at 100 blows was 20%. The liquid limit of the soil, is
  - A. 35%
  - B. 50%
  - C. 65%
  - E. none of these.
  
2. The active earth pressure of a soil is proportional to (where  $\phi$  is the angle of friction of the soil)
  - A.  $\tan(45^\circ - \phi)$
  - B.  $\tan^2(45^\circ + \phi/2)$
  - C.  $\tan^2(45^\circ - \phi/2)$
  - D.  $\tan(45^\circ + \phi)$
  
3. The minimum water content at which the soil just begins to crumble when rolled into threads 3 mm in diameter, is known
  - A. liquid limit
  - B. plastic limit
  - C. shrinkage limit
  - D. permeability limit
  
4. Which one of the following statements is true ?
  - A. Clays are more porous than sands
  - B. Pressure of organic matter in a soil decreases the bearing capacity of the soil
  - C. Aluminous cement is used for foundations in soils with chemical deposits
  - D. All the above.
  
5. Pick up the correct statement from the following:
  - A. The rise of the ground surface due to frost action is called frost heave.
  - B. The freezing of water is accompanied by a volume increase of 9%.
  - C. Below freezing point, higher soil suction develops.
  - D. The magnitude of frost heave decreases as the degree of saturation of soil decreases
  - E. All the above
  
6. Borrow pits should preferably be located in
  - A. field on the left side of the canal
  - B. field on the right side of the canal
  - C. fields on both sides of the canal
  - D. central half width of the section of the canal
  
7. Irrigation canals are generally aligned along
  - A. ridge line
  - B. contour line
  - C. valley line
  - D. straight line.



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8. The length of a meander is the distance along the river between the tangent point of one curve to the tangent point of
- A. reverse curve
  - B. next curve of the same order
  - C. reverse curve plus the width of the river
  - D. none of these.
9. If  $B$  and  $d$  are the bed width and depth of a channel in metres, the combined losses due to evaporation and seepage in cumecs per kilometre length of the channel, is
- A.  $\frac{1}{50} (B + d)^{2/3}$
  - B.  $\frac{1}{100} (B + d)^{2/3}$
  - C.  $\frac{1}{150} (B + d)^{2/3}$
  - D.  $\frac{1}{200} (B + d)^{2/3}$
10. Pick up the incorrect statement from the following
- A. Side walls of a venturi head flume are splayed out from the end of the throat at 1 : 10 for a length of 4.5 m
  - B. Length of side walls should be such that the width of the flume is made equal to 2/3rd the bed width of the distributary
  - C. Once the width of the flume becomes 2/3rd of the width of the distributary, the splayed walls are increased to 1 in 3 to get full bed width
  - D. None of these
11. Hydrographic surveys deal with the mapping of
- A. large water bodies
  - B. heavenly bodies
  - C. mountaineous region
  - D. canal system
  - E. movement of clouds.
13. If  $h$  is the difference in level between end points separated by  $l$ , then the slope correction is  $\frac{h^2}{2l} + \frac{h^4}{8l^3}$ . The second term may be neglected if the value of  $h$  in a 20 m distance is less than
- E.  $\frac{1}{2}$  m
  - F. 1 m
  - G. 2 m
  - H. 3 m



13. An ideal vertical curve to join two gradients, is
- A. circular
  - B. parabolic
  - C. elliptical
  - D. hyperbolic
14. Pick up the correct statement from the following :
- A. the eyepiece plays no part in defining the line of sight
  - B. the diaphragm plays no part in defining the line of sight
  - C. the optical centre of the objective plays no part in defining the line of sight
  - D. none of these.
15. The intercept of a staff
- A. is maximum if the staff is held truly normal to the line of sight.
  - B. is minimum if the staff is held truly normal to the line of sight.
  - C. decreases if the staff is tilted away from normal
  - D. increases if the staff is tilted towards normal.



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Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

MBA Year/Semester: Participated students

Date: 26/02/2021

**ATTENDANCE SHEET**

SI.NO	REGD.NO	NAME OF THE STUDENT	SIGN
1	17Q71A0101	Annepu Upendra	Attended
2	17Q71A0102	Baddem Sai Lokesh	Attended
3	17Q71A0103	Badithaboina Divija	Attended
4	17Q71A0104	Chandaka Srihari	Attended
5	17Q71A0105	Dappodi Digvijay	Attended
6	17Q71A0108	Girada Vykunta Rao	Attended
7	17Q71A0109	Gokada Bhanu Kumar	Attended
8	17Q71A0110	Gorrela Praveen Kumar	Attended
9	17Q71A0111	Gotta Ganesh	Attended
10	17Q71A0112	Kolla Srinivasarao	Attended
11	17Q71A0115	Metta Devendhar	Attended
12	17Q71A0117	Nakka Umesh Chandra	Attended
13	17Q71A0120	Saikrishna V	Attended
14	17Q71A0122	Singireddi Venkata Ramana	Attended
15	18Q75A0101	Chalumuri Ravi Teja	Attended
16	18Q75A0103	Gorle Prabhu	Attended
17	18Q75A0105	Gudla Naveen	Attended
18	18Q75A0108	Kimmi Venkata Nikhil	Attended
19	18Q75A0110	Lenka Dinesh	Attended
20	18Q75A0111	Nalla Ravi	Attended
21	18Q75A0112	Nallasamanta Shankara Rao	Attended
22	18Q75A0113	Madaka Santosh Kumar	Attended
23	18Q75A0114	Ramesh Sambangi	Attended
24	18Q75A0116	Sadhu Vamsi	Attended



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25	18Q75A0117	Suri Pavan Kalyan	Attended
26	18Q75A0118	Suri Raja Rao	Attended
27	18Q75A0119	Vasamsetti Pavan Kumar	Attended
28	18Q75A0120	Voona Pavan Kumar	Attended
29	18Q75A0121	Vyasalapu Sunny Deepak	Attended
30	18Q75A0122	Yalla Sai Venkata Jagadeesh	Attended
31	18Q71A0101	B Biswajith	Attended
32	18Q71A0104	Ch Suchitra	Attended
33	18Q71A0106	J Devi	Attended
34	18Q71A0108	K Shyam Kumar Raju	Attended
35	18Q71A0109	N Prasanth	Attended
36	18Q71A0111	P Santosh	Attended
37	18Q71A0113	R Bharath Surya	Attended
38	18Q71A0114	S Shymanth Prasad	Attended
39	18Q71A0115	T Tejaswini	Attended
40	19Q75A0101	A Ravindra	Attended
41	19Q75A0103	B Sai Ganesh	Attended
42	19Q75A0106	J Neelima	Attended
43	19Q75A0107	G Chandra Sekhar	Attended
44	19Q75A0108	K S Radha Krishna	Attended
45	19Q75A0109	K Pavan Kumar	Attended
46	19Q75A0110	K Sai Teja	Attended
47	19Q75A0111	K Satish	Attended
48	19Q75A0113	M Anand	Attended
49	19Q75A0114	M Bharath	Attended
50	19Q75A0117	P Sai Chandu	Attended
51	19Q75A0118	P Jeevan Kumar	Attended
52	19Q75A0119	R Raju	Attended
53	19Q75A0120	S Raju	Attended
54	19Q75A0121	S Nageswara Rao	Attended

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55	19Q75A0122	S Ram Sai	Attended
56	19Q75A0123	S Vamsi	Attended
57	19Q75A0124	T Indravathi	Attended
58	19Q75A0125	Y Anusha	Attended
59	19Q71A0101	Chetla Saraswathi	Attended
60	19Q71A0102	Chandana Pandi	Attended
61	19Q71A0103	Ellipilli Srinuvas	Attended
62	19Q71A0104	G Mithun Krishnan	Attended
63	19Q71A0105	Jestadi Tharun	Attended
64	19Q71A0106	G. Hemanth Bhuvan Chand	Attended
65	19Q71A0107	Mallareddy Lokesh	Attended
66	19Q71A0108	Menda Koteswara Rao	Attended
67	19Q71A0109	Mudili Guna Shekar	Attended
68	19Q71A0110	Ommi Pavan Kumar	Attended
69	19Q71A0111	Pediredla Lokesh	Attended
70	19Q71A0112	Reddi Chandra Mouli	Attended
71	19Q71A0115	Vanjari Anusha	Attended
72	20Q75A0101	Boni Vijay Kumar	Attended
73	20Q75A0102	Seeku Ramyasri	Attended
74	20Q75A0103	Mandadi Rakesh Kumar Reddy	Attended
75	20Q75A0104	Kuracha Teja	Attended
76	20Q75A0105	Marrapu Manikanta	Attended
77	20Q75A0106	Masabattula Satyannarayana	Attended
78	20Q75A0107	Pallela Vinay	Attended
79	20Q75A0108	Pilli Murali	Attended
80	20Q75A0109	Bandaru Manohar	Attended



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Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

MBA Year/Semester: Participated students

Date: 26/02/2021

MARKS

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0101	Annepu Upendra	A	70
2	17Q71A0102	Baddem Sai Lokesh	A	70
3	17Q71A0103	Badithaboina Divija	A	70
4	17Q71A0104	Chandaka Srihari	A	70
5	17Q71A0105	Dappodi Digvijay	A	70
6	17Q71A0108	Girada Vykunta Rao	A	70
7	17Q71A0109	Gokada Bhanu Kumar	A	70
8	17Q71A0110	Gorrela Praveen Kumar	A	70
9	17Q71A0111	Gotta Ganesh	A	70
10	17Q71A0112	Kolla Srinivasarao	A	70

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0115	Metta Devendhar	B	40
2	17Q71A0117	Nakka Umesh Chandra	B	40
3	17Q71A0120	Saikrishna V	B	40
4	17Q71A0122	Singireddi Venkata Ramana	B	40
5	18Q75A0101	Chalumuri Ravi Teja	B	40
6	18Q75A0103	Gorle Prabhu	B	40
7	18Q75A0105	Gudla Naveen	B	40
8	18Q75A0108	Kimmi Venkata Nikhil	B	40
9	18Q75A0110	Lenka Dinesh	B	40
10	18Q75A0111	Nalla Ravi	B	40

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q75A0112	Nallasamanta Shankara Rao	C	50
2	18Q75A0113	Madaka Santosh Kumar	C	50
3	18Q75A0114	Ramesh Sambangi	C	50
4	18Q75A0116	Sadhu Vamsi	C	50
5	18Q75A0117	Suri Pavan Kalyan	C	50



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6	18Q75A0118	Suri Raja Rao	C	50
7	18Q75A0119	Vasamsetti Pavan Kumar	C	50
8	18Q75A0120	Voona Pavan Kumar	C	50
9	18Q75A0121	Vyasalapu Sunny Deepak	C	50
10	18Q75A0122	Yalla Sai Venkata Jagadeesh	C	50

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q71A0101	B Biswajith	D	60
2	18Q71A0104	Ch Suchitra	D	60
3	18Q71A0106	J Devi	D	60
4	18Q71A0108	K Shyam Kumar Raju	D	60
5	18Q71A0109	N Prasanth	D	60
6	18Q71A0111	P Santosh	D	60
7	18Q71A0113	R Bharath Surya	D	60
8	18Q71A0114	S Shymanth Prasad	D	60
9	18Q71A0115	T Tejaswini	D	60
10	19Q75A0101	A Ravindra	D	60

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q75A0103	B Sai Ganesh	E	60
2	19Q75A0106	J Neelima	E	60
3	19Q75A0107	G Chandra Sekhar	E	60
4	19Q75A0108	K S Radha Krishna	E	60
5	19Q75A0109	K Pavan Kumar	E	60
6	19Q75A0110	K Sai Teja	E	60
7	19Q75A0111	K Satish	E	60
8	19Q75A0113	M Anand	E	60
9	19Q75A0114	M Bharath	E	60
10	19Q75A0117	P Sai Chandu	E	60

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q75A0118	P Jeevan Kumar	F	80
2	19Q75A0119	R Raju	F	80
3	19Q75A0120	S Raju	F	80
4	19Q75A0121	S Nageswara Rao	F	80
5	19Q75A0122	S Ram Sai	F	80



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8	19Q75A0125	Y ANUSHA	F	80
9	19Q71A0101	CHELTA SARASWATHI	F	80
10	19Q71A0102	CHANDANA PANDI	F	80

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q71A0103	ELLIPILLI SRINUVAS	G	30
2	19Q71A0104	G MITHUN KRISHNAN	G	30
3	19Q71A0105	JESTADI THARUN	G	30
4	19Q71A0106	G. HEMANTH BHUVAN CHAND	G	30
5	19Q71A0107	MALLAREDDY LOKESH	G	30
6	19Q71A0108	MENDA KOTESWARA RAO	G	30
7	19Q71A0109	MUDILI GUNA SHEKAR	G	30
8	19Q71A0110	OMMI PAVAN KUMAR	G	30
9	19Q71A0111	PEDIREDLA LOKESH	G	30
10	19Q71A0112	REDDI CHANDRA MOULI	G	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q71A0115	VANJARI ANUSHA	H	40
2	20Q75A0101	BONI VIJAY KUMAR	H	40
3	20Q75A0102	SEEKU RAMYASRI	H	40
4	20Q75A0103	MANDADI RAKESH KUMAR REDDY	H	40
5	20Q75A0104	KURACHA TEJA	H	40
6	20Q75A0105	MARRAPU MANIKANTA	H	40
7	20Q75A0106	MASABATTULA SATYANNARAYANA	H	40
8	20Q75A0107	PALLELA VINAY	H	40
9	20Q75A0108	PILLI MURALI	H	40
10	20Q75A0109	BANDARU MANOHAR	H	40

Result: After the analysis of student's performance in Quiz program as listed above, the winner was announced by HOD: Group F

*P. Venkatesh*  
HOD-CIV



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Report on Quiz Program on "Electrical Engineering, Current Affairs & General knowledge"

Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: All Students

Date: 26/02/2021

MR. d.dhana prasad, Assist. Prof, has conducted a Quiz Program on "" for All year students. 200 members have participated in the Technical fest event. This program was organized under the guidance of Mr.A.Arjuna Rao, HOD, Electrical Engineering.

The total strength was divided into 10 groups. The event was started by introducing about the Quiz program and giving instructions to the students, by the concern faculty. And then he started asking questions the students who knows the answer are giving answers.

Students are actively participated the program and they exposed to learn more beyond the subject. They are showing interest to attend this type of programs in our institution. They get motivated by the faculty to participate such programs.



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1. Which of the following parameter will be more for 16 gauge copper wire in comparison to 14 gauge copper wire?

- Cost
- Strength
- Resistance
- Weight

2. The length of wire having resistance of 1 ohm/m in a heater rated at 1000 W and 250 V will be

- 250m
- 125m
- 62.5m
- 500m

3 Power dissipated in a pure capacitor is

- Minimum
- Maximum
- Infinite
- Zero

4. The size of the feeder is determined primarily by

- The current it is required to carry
- The percentage variation of voltage in the feeder
- The voltage across the feeder
- The distance over which the transmission is made

5. Non-conductors whose polarization is caused by an electric field are known as

- Dielectric
- Super-conductors
- Semi-conductors
- Insulators

6. If the diameter of a conductor is double, then its resistance will be reduced to

- Half
- One-fourth
- One-eighth
- One-sixteenth

7. One of difficulties encountered with super-conductors is Zero



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The materials become highly magnetic  
Strength is reduced  
Resistance is increased  
Maintenance of low temperature

8. The inductance of a coil can be increased by

Decreasing number of turns  
Increasing core length  
Using core material of high relative permeability  
All of the above

9. The resistance of a lamp rated at 240 V and 60 watts equal to

960 ohms  
120 ohms  
240 ohms  
480 ohms

10. Two resistances of 100 ohms and 0 ohm are connected in parallel. The overall resistance will be

100 ohms  
50 ohms  
Zero ohm  
Any one of the above

11. Which of the following elements of electrical engineering cannot be analyzed using Ohm's law?

Capacitors  
Inductors  
Transistors  
Resistance

12. What is constant for a charged spherical shell according to basic electrical energy?

Electrical potential outside the spherical shell  
Electrical potential inside the spherical shell  
Electrical field outside the spherical shell  
Electrical field inside the spherical shell

13. Where does electro-static shielding occur in a charged spherical shell?

When electrical potential outside spherical shell is zero  
When electrical potential inside the spherical shell is zero  
When electrical field outside the spherical shell  
Electrical field inside the spherical shell

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14. Which of the following is a correct representation of peak value in an AC Circuit?

RMS value/Peak factor

RMS value\*Form factor

RMS value/Form factor

RMS value\*Peak factor

15. Which of the following according to fundamentals of electrical energy is correct about alternating current?

Frequency is zero

Magnitude changes with time

Can be transported to larger distances with less loss in power

Flows in both directions



**Question paper Quiz Program on "Electrical Engineering, Current Affairs & General  
knowledge"**

Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: Participated students

Date: 26/02/2021

**ONLINE ATTENDENCE SHEET**

SI.NO	REGD.NO	NAME OF THE STUDENT	SIGN
1	17Q71A0203	Dukka Janardhan	Attended
2	17Q71A0204	Gompana Manoj	Attended
3	17Q71A0205	Kasarapu Sandeep Vamsi	Attended
4	17Q71A0206	Kathari Naveen Kumar	Attended
5	17Q71A0207	Nekkala Devendra	Attended
6	17Q71A0208	Nune Venugopal	Attended
7	17Q71A0209	Palla Lokesh	Attended
8	17Q71A0210	Ratnala Triveni	Attended
9	17Q71A0211	Regani Tarun Teja	Attended
10	17Q71A0212	Rokkam Sai Kishore	Attended
11	17Q71A0213	Sanaboni Madhu	Attended
12	17Q71A0214	Vakada Jhansi	Attended
13	17Q71A0215	Yaandra Siva	Attended
14	17Q71A0216	Bangari Somesh Yadav	Attended
15	18Q75A0203	Balivada Pavankumar	Attended
16	18Q75A0204	Baru Manikanta	Attended
17	18Q75A0205	Botta Leela Chandini	Attended
18	18Q75A0206	Boyina Koti Venkat Vinayak	Attended
19	18Q75A0207	Chintakayala Prathyusha	Attended
20	18Q75A0208	Chinthada Naveena	Attended
21	18Q75A0209	Dakarapu Deepthiakhila	Attended
22	18Q75A0210	Devadas Sai Ananth Eswar Shenoy	Attended
23	18Q75A0212	Duvvu Prasanth	Attended
24	18Q75A0213	Dwarapudi Bhaskararao	Attended
25	18Q75A0214	Gowda Naveen	Attended
26	18Q75A0216	Jeeredy Dhanalakshmi	Attended
27	18Q75A0217	Kandi Gurunadha Rao	Attended
28	18Q75A0218	Kolli Saichand	Attended
29	18Q75A0220	Kunisetty Venkata Gowri Bhavana	Attended
30	18Q75A0221	Lenka Pavan Sai Kumar	Attended
31	18Q75A0223	Muppana Vinay Kumar	Attended



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32	18Q75A0224	Nalam Shyamkumar	Attended
33	18Q75A0225	Ommi Nanda Kishor	Attended
34	18Q75A0226	Pala Mahendra	Attended
35	18Q75A0227	Paluri Kumar Kalyan	Attended
36	18Q75A0228	Pampana Ravi	Attended
37	18Q75A0229	Potnuru Beena Priyanka	Attended
38	18Q75A0230	Ramololu Ramani	Attended
39	18Q75A0231	Samsani Sai Naveen	Attended
40	18Q75A0232	Sathivada Madhu Babu	Attended
41	18Q75A0233	Seerapu Asha	Attended
42	18Q75A0234	Shavukari Manikanta	Attended
43	18Q75A0235	Simidi Mahesh	Attended
44	18Q75A0237	Taidala Ajay Shankar	Attended
45	18Q75A0238	Juttu Rokesh	Attended
46	18Q75A0240	Niranjan Yellapu	Attended
47	18Q75A0241	Kakara Naveen	Attended
48	17Q71A0202	D Vamsi Krishna	Attended
49	18Q71A0201	Ayyagari Sundhara Siva Pavan Kumar	Attended
50	18Q71A0202	Baipa Pavan Kumar	Attended
51	18Q71A0203	Bevara Chetana	Attended
52	18Q71A0204	Bhaskar Rao Ganivada	Attended
53	18Q71A0205	Doodatndrani Kavya Sri	Attended
54	18Q71A0206	Gadhamsetty Harsha	Attended
55	18Q71A0207	Gorle Venkatesh	Attended
56	18Q71A0208	Goruputi Ome Vardhan	Attended
57	18Q71A0209	Kambala Sai Dhana Sree	Attended
58	18Q71A0210	Mahanthi Bhuvana	Attended
59	18Q71A0211	Mahanthi Suresh	Attended
60	18Q71A0212	Merugu Gopi	Attended
61	18Q71A0213	Mohammad Anwar	Attended
62	18Q71A0214	Mugidi Lakshmanaidu	Attended
63	18Q71A0215	Pediredla Dilip Kumar	Attended
64	18Q71A0216	Penki Sai Priya	Attended
65	18Q71A0217	Pilla Praveena	Attended
66	18Q71A0218	Pothina Ajay	Attended
67	18Q71A0220	Seemala Dilleswara Rao	Attended
68	18Q71A0221	Surada Naidu	Attended
69	18Q71A0222	Vasantala Swathi	Attended
71	19Q75A0202	Attada Suresh	Attended



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72	19Q75A0203	Ayaluri Manogyna Gayatri	Attended
73	19Q75A0204	Bali Prudhvi Deepika	Attended
74	19Q75A0205	Batna Chinnammadu	Attended
75	19Q75A0206	Chepala Akshith Kumar	Attended
76	19Q75A0207	Danivireddy Ayyappa	Attended
77	19Q75A0208	Eppili Mohana Rao	Attended
78	19Q75A0209	Gokeda Pradeep	Attended
79	19Q75A0210	Gollu Naga Prasad	Attended
80	19Q75A0211	Gorle Mahesh	Attended
81	19Q75A0212	Gundu Karthik	Attended
82	19Q75A0213	Gurugubelli Vasanta Rao	Attended
83	19Q75A0214	Ijju Venkatesh	Attended
84	19Q75A0215	Karedla Harish	Attended
85	19Q75A0216	Kornu Manmadha Rao	Attended
86	19Q75A0217	Kottagiri Rahul	Attended
87	19Q75A0219	Majji Swathi	Attended
88	19Q75A0220	Oduri Jagadish	Attended
89	19Q75A0221	P Venkata Satya Sai Ramakanth	Attended
90	19Q75A0222	Pentapalli Mary Priyanka	Attended
91	19Q75A0223	Ponaganti Vishnuvardhan	Attended
92	19Q75A0224	Ponnada Phani Kumar	Attended
93	19Q75A0225	Putrupokala Dheeraj	Attended
94	19Q75A0226	Routhu Rambabu	Attended
95	19Q75A0227	Saladi Ganesh	Attended
96	19Q75A0228	Sarisha Divakar	Attended
97	19Q75A0229	Rallapudi Vasudeva Rao	Attended
98	19Q75A0230	Surada Krishna Mohan	Attended
99	19Q75A0231	Sutti Balu	Attended
100	19Q75A0232	Tabelu Pavan Kumar	Attended
101	19Q75A0233	Vadisa Naveen	Attended
102	19Q75A0234	Vatti Kooti Sai Surya Prakash	Attended
103	19Q75A0235	Challa Dilleswara Rao	Attended
104	19Q75A0236	Narsupalli Harika	Attended
105	19Q75A0237	Kottagundu Bhanu Prasad	Attended
106	19Q71A0201	Bongu Abiel Reddy	Attended
107	19Q71A0203	Chandaka Sai Priya	Attended
108	19Q71A0204	Darla Venkatesh	Attended
109	19Q71A0205	Dommeti Venkata Laxman	Attended
110	19Q71A0206	Sudheer Indhraganti	Attended



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111	19Q71A0207	Koduru Nani Sharan	Attended
112	19Q71A0208	Mahanthi Ananda Rao	Attended
113	19Q71A0209	Muvvala Dinesh	Attended
114	19Q71A0210	Palaparathi Venkata Nagendra	Attended
115	19Q71A0211	Pamu Suresh	Attended
116	19Q71A0212	Sadaram Mohan Kireeti	Attended
117	19Q71A0213	Oruganti Nagadurgaprasad	Attended
118	19Q71A0214	Yelagada Manikanta	Attended
119	19Q71A0215	Marada Harika Reddy	Attended
120	20Q75A0201	Adavipalli Ashish	Attended
121	20Q75A0202	Aringi Ranjith Kumar	Attended
122	20Q75A0203	Bavirisetty Neelima	Attended
123	20Q75A0204	Gedala Joseph Thambi	Attended
124	20Q75A0205	Gudapati Raja Ratna Kumar	Attended
125	20Q75A0206	Gurubelli Prasanna Kumar	Attended
126	20Q75A0207	Kalluri Jagadeesh	Attended
127	20Q75A0208	Kambala Laxman Ravi Teja	Attended
128	20Q75A0209	Kanamata Eswara Rao	Attended
129	20Q75A0210	Karri Pavan Kumar	Attended
130	20Q75A0211	Kodi Vasu Sai Prasad	Attended
131	20Q75A0212	Lokarapu Surya Kumar	Attended
132	20Q75A0213	Maradipudi Sai Chandini	Attended
133	20Q75A0214	Naga Satish Dungala	Attended
134	20Q75A0215	Pilla Venkatesh	Attended
135	20Q75A0216	Rapeti Dileep Sankar	Attended
136	20Q75A0217	Tandle Vasanthi	Attended
137	20Q75A0218	Thota Dinesh	Attended
138	20Q75A0219	Thokala Saitharun	Attended
139	20Q75A0220	Vanga Deepak	Attended
140	20Q75A0221	Vangapandu Bhaskara Rao	Attended
141	20Q75A0222	Vummidi Purna Durga Prasad	Attended
142	20Q75A0223	Yeduru Dileep Kumar	Attended
143	20Q75A0224	Kola Ganesh	Attended
144	20Q75A0225	Vemula Venkatesh	Attended
145	20Q75A0226	Bobbari Vasu	Attended
146	20Q75A0227	Bora Pavankumar	Attended
147	20Q75A0228	Dungi Jaswanth Kumar	Attended
148	20Q75A0229	Gudivada Ramya	Attended
149	20Q75A0230	Kalyampudi Prasanna Kumar	Attended

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150	20Q75A0231	Lenka Suresh	Attended
151	20Q75A0232	Manyala Narayana Rao	Attended
152	20Q75A0233	Pilla Narendra	Attended
153	20Q75A0234	Robbi Tarun	Attended
154	20Q75A0235	Routhu Ramkumar	Attended
155	20Q75A0236	Ravi Nagendra	Attended
156	20Q75A0237	Sornapudi Bhargavi	Attended



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**MARKS**

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0203	Dukka Janardhan	A	30
2	17Q71A0204	Gompana Manoj	A	30
3	17Q71A0205	Kasarapu Sandeepvamsi	A	30
4	17Q71A0206	Kathari Naveen Kumar	A	30
5	17Q71A0207	Nekkala Devendra	A	30
6	17Q71A0208	Nune Venugopal	A	30
7	17Q71A0209	Palla Lokesh	A	30
8	17Q71A0210	Ratnala Triveni	A	30
9	17Q71A0211	Regani Tarun Teja	A	30
10	17Q71A0212	Rokkam Sai Kishore	A	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0213	Sanaboni Madhu	B	20
2	17Q71A0214	Vakada Jhansi	B	20
3	17Q71A0215	Yaandra Siva	B	20
4	17Q71A0216	Bangari Somesh Yadav	B	20
5	18Q75A0203	Balivada Pavankumar	B	20
6	18Q75A0204	Baru Manikanta	B	20
7	18Q75A0205	Botta Leela Chandini	B	20
8	18Q75A0206	Boyina Koti Venkat Vinayak	B	20
9	18Q75A0207	Chintakayalaprathyusha	B	20
10	18Q75A0208	Chinthada Naveena	B	20



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SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q75A0209	Dakarapu Deepthiakhila	C	60
2	18Q75A0210	Devadas Sai Ananth Eswar Shenoy	C	60
3	18Q75A0212	Duvvu Prasanth	C	60
4	18Q75A0213	Dwarapudi Bhaskararao	C	60
5	18Q75A0214	Gowda Naveen	C	60
6	18Q75A0216	Jeeredy Dhanalakshmi	C	60
7	18Q75A0217	Kandi Gurunadha Rao	C	60
8	18Q75A0218	Kolli Saichand	C	60
9	18Q75A0220	Kunisetty Venkata Gowri Bhavana	C	60
10	18Q75A0221	Lenka Pavan Sai Kumar	C	60

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q75A0223	Muppana Vinay Kumar	D	30
2	18Q75A0224	Nalam Shyamkumar	D	30
3	18Q75A0225	Ommi Nanda Kishor	D	30
4	18Q75A0226	Pala Mahendra	D	30
5	18Q75A0227	Paluri Kumar Kalyan	D	30
6	18Q75A0228	Pampana Ravi	D	30
7	18Q75A0229	Potnuru Beena Priyanka	D	30
8	18Q75A0230	Ramolu Ramani	D	30
9	18Q75A0231	Samsani Sai Naveen	D	30
10	18Q75A0232	Sathivada Madhu Babu	D	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q75A0233	Seerapu Asha	E	45
2	18Q75A0234	Shavukari Manikanta	E	45
3	18Q75A0235	Simidi Mahesh	E	45
4	18Q75A0237	Taidala Ajay Shankar	E	45
5	18Q75A0238	Juttu Rokesh	E	45
6	18Q75A0240	Niranjan Yellapu	E	45
7	18Q75A0241	Kakara Naveen	E	45
8	17Q71A0202	D Vamsi Krishna	E	45
9	18Q71A0201	Ayyagari Sundhara Siva Pavan Kumar	E	45
10	18Q71A0202	Baipa Pavan Kumar	E	45

Result: After the analysis of student's performance in Quiz program as listed above, the winner was announced by HOD: Group C

HOD-EEE

Avanthi Institute of Engineering and Technology

Head of The Department  
Department of Electrical and Electronics Engineering  
Avanthi Institute of Engg. & Tech.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram(Dist)-531163



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## DEPARTMENT OF MECHANICAL ENGINEERING

### Report on Quiz Program on "Mechanical Engineering, Current Affairs & General knowledge"

Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: All Students

Date: 26/02/2021

MR. R. Raghava Rao, Assist. Prof, has conducted a Quiz Program on "" for All year students. 50 members have participated in the Technical fest event. This program was organized under the guidance of Mrs.Lakshmi Sramika, HOD, Mechanical Engineering.

The total strength was divided into 5 groups. The event was started by introducing about the Quiz program and giving instructions to the students, by the concern faculty. And then he started asking questions the students who knows the answer are giving answers.

Students are actively participated the program and they exposed to learn more beyond the subject. They are showing interest to attend this type of programs in our institution. They get motivated by the faculty to participate such programs.



Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: Participated students

Date: 26/02/2021

**The Question Paper**

1. According to principle of conservation of energy, the total momentum of a system of masses in any direction remains constant unless acted upon by an external force in that direction.

True

False

2. The friction experienced by a body, when in motion, is known as

Rolling friction

Dynamic friction

Limiting friction

Static friction

3. Two balls of equal mass and of perfectly elastic material are lying on the floor. One of the ball with velocity  $v$  is made to struck the second ball. Both the balls after impact will move with a velocity

$v$

$v/2$

$v/4$

$v/8$

4. The term 'force' may be defined as an agent which produces or tends to produce, destroys or tends to destroy motion.

Agree

Disagree

5. Strain energy is the

Energy stored in a body when strained within elastic limits

Energy stored in a body when strained upto the breaking of a specimen

Maximum strain energy which can be stored in a body

Proof resilience per unit volume of a material



6. A vertical column has two moments of inertia (i.e.  $I_{xx}$  and  $I_{yy}$ ). The column will tend to buckle in the direction of the

Axis of load

Perpendicular to the axis of load

Maximum moment of inertia

Minimum moment of inertia

7. The neutral axis of the cross-section of a beam is that axis at which the bending stress is

Zero

Minimum

Maximum

Infinity

8. Euler's formula holds good only for

Short columns

Long columns

Both short and long columns

Weak columns

9. The object of caulking in a riveted joint is to make the joint

Free from corrosion

Stronger in tension

Free from stresses

Leak-proof

10. One litre of water occupies a volume of

100 cm<sup>3</sup>

250 cm<sup>3</sup>

500 cm<sup>3</sup>

1000 cm<sup>3</sup>

11. The value of bulk modulus of a fluid is required to determine

Reynold's number

Froude's number

Mach number

Euler's number

12. In a depressed nappe



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The pressure below the nappe is atmospheric

The pressure below the nappe is negative

The pressure above the nappe is atmospheric

The pressure above the nappe is negative

13. In one dimensional flow, the flow

Is steady and uniform

Takes place in straight line

Takes place in curve

Takes place in one direction

14. The kinematic viscosity is the

Ratio of absolute viscosity to the density of the liquid

Ratio of density of the liquid to the absolute viscosity

Product of absolute viscosity and density of the liquid

Product of absolute viscosity and mass of the liquid

1. What is the Corporate Profit to GDP ratio in India, as registered in FY 21?

[A] 2.63%

[B] 5.55%

[C] 10.2%

[D] 20.2%

2. The ‘Race to Zero’ campaign, which was making news recently, is associated with which field?

[A] Climate Change

[B] Covid Vaccination

[C] Artificial Intelligence

[D] Agriculture

3. Tardigrades, which would be sent to the International Space Station by NASA, are also called as....

[A] Water Spiders

[B] Water Bears

[C] Water Mice

[D] Water Horses

4. What is the name of the homemade Covid-19 vaccine launched by Pakistan, with the help of China?

[A] Pak Vac

[B] Sino Vac

[C] Cov Pak

5. APEDA identified Mathura and Banaskantha as clusters for export development in which sector?

[A] Textile

[B] Dairy

[C] Cotton

[D] Fruits

6. CSIR-NCL developed a technology called ‘SWASTIHK’, to disinfect water using which medicinal system?



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[A]Siddha

[B]Ayurveda

[C]Homeopathy

[D] Sowa-Rigpa

7. Which is India's first institution to be declared as Standard Developing Organization (SDO)?

[A]RDSO

[B]IRCTC

[C]DRDO

[D] RITES

8. Which Indian state topped the NITI Aayog's Sustainable Development Goals (SDG) Index?

[A]HimachalPradesh

[B]Kerala

[C]Gujarat

[D] Tamil Nadu

9. Which country is to play host to the UN Sustainable Transport Conference 2021?

[A]India

[B]China

[C]Japan

[D] Australia

10. Which decade has been declared as the UN Decade on Ecosystem Restoration?

[A]2020-2029

[B]2021-2030

[C]2022-2031

[D] 2025-2034

1.

Grand Central Terminal, Park Avenue, New York is the world's

largest railway station

highest railway station

longest railway station

None of the above

2.

Entomology is the science that studies

Behavior of human beings

Insects

The origin and history of technical and scientific terms

The formation of rocks

5.

For which of the following disciplines is Nobel Prize awarded?

Physics and Chemistry

Physiology or Medicine

Literature, Peace and Economics

All of the above

'OS' computer abbreviation usually means ?

Order of Significance



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Open Software

Operating System

Optical Sensor

4. In which decade with the first transatlantic radio broadcast occur?

1850s

1860s

1870s

1900s



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Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: Participated students

Date: 26/02/2021

**ATTENDENCE SHEET**

SI.NO	REGD.NO	NAME OF THE STUDENT	SIGN
1	17Q71A0301	Adari Naveen Sai	Attended
2	17Q71A0302	Allipilli Bishma Sree	Attended
3	17Q71A0303	Allu Vinod Kumar	Attended
4	17Q71A0304	Ayanavilli Paul John	Attended
5	18Q75A0317	Botta Rajasekhar	Attended
6	18Q75A0318	Budda Narendra	Attended
7	18Q75A0319	Chanamala Suresh	Attended
8	18Q75A0320	Chandaka Venkata Rao	Attended
9	18Q75A0321	Chebolu Mahesh	Attended
10	18Q75A0322	Chellarapu Sai Kumar	Attended
11	18Q75A0324	Chokkakula Kiran Kumar	Attended
12	18Q71A0307	Bevara Jairam	Attended
13	18Q71A0308	Bhogadi Prasanth	Attended
14	18Q71A0309	Bhyravabhatla Anil	Attended
15	18Q71A0310	Buddha R.R. Santosh Kumar	Attended
16	18Q71A0311	Chalamala Sateesh	Attended
17	18Q71A0312	Chelluri Venkata Harshavardhan	Attended
18	18Q71A0314	Chukka Hemanth	Attended
19	19Q75A0332	Kasimkota Upendra	Attended
20	19Q75A0333	Katta Chandra Rao	Attended
21	19Q75A0334	Maddala Pavankumar	Attended
22	19Q75A0335	Nadimpalli Vijay Kumar Varma	Attended
23	19Q71A0353	Voleti Praveen Kumar	Attended
24	19Q71A0354	Gumpa Bhanuchandar	Attended
25	19Q71A0355	Koppara Sai Kumar	Attended
26	19Q71A0356	Nammi Naga Jyothi Swaroop	Attended
27	20Q75A0362	Agathmudi Yashwanth	Attended
28	20Q75A0363	Alugolu Sai Mohan	Attended
29	20Q75A0364	Amalapuram Sekhar	Attended
30	20Q75A0365	Ambati Sandeep	Attended
31	20Q75A0366	Animireddy Chaitanya Kumar	Attended
32	20Q75A0367	Bagadi Murali	Attended
33	20Q75A0368	Battina Sai Prashant	Attended



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34	20Q71A0348	Behara Bharadwaja Patnaik	Attended
35	20Q71A0349	Billa Sekhar	Attended
36	20Q71A0350	Bodha Sai Tharun	Attended
37	20Q71A0351	Bonthu Satish	Attended
38	20Q71A0353	Dasari Hari	Attended
39	21Q75A0320	Mantrabudi Naresh	Attended
40	21Q75A0322	Masabathul Tirupathi Rao	Attended
41	21Q75A0323	Meesala Ravi Kumar	Attended
42	21Q75A0324	Mohammed Sohail	Attended
43	21Q75A0325	Morchi Shanmukha	Attended
44	21Q75A0326	Padagala Durgaprasad	Attended
45	21Q71A0301	Dasari Karthik	Attended
46	21Q71A0302	J Satish Reddy	Attended
47	21Q71A0303	Jogi Maharaju	Attended
48	21Q71A0304	Kirru Pavan	Attended
49	21Q71A0305	Kovvuru Chandrakala Divakar	Attended
50	21Q71A0306	Lingampalli Gopisaikanth	Attended



**DEPARTMENT OF MECHANICAL ENGINEERING**

**Question paper Quiz Program on "Mechanical Engineering, Current Affairs & General knowledge"**

Academic Year: 2020-2021

Timings: 10:20 am to 11:20

am

B.Tech Year/Semester: Participated students

Date: 26/02/2021

**MARKS**

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0301	Adari Naveen Sai	A	30
2	17Q71A0302	Allipilli Bishma Sree	A	30
3	17Q71A0303	Allu Vinod Kumar	A	30
4	17Q71A0304	Ayanavilli Paul John	A	30
5	18Q75A0317	Botta Rajasekhar	A	30
6	18Q75A0318	Budda Narendra	A	30
7	18Q75A0319	Chanamala Suresh	A	30
8	18Q75A0320	Chandaka Venkata Rao	A	30
9	18Q75A0321	Chebolu Mahesh	A	30
10	18Q75A0322	Chellarapu Sai Kumar	A	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q75A0324	Chokkakula Kiran Kumar	B	20
2	18Q71A0307	Bevara Jairam	B	20
3	18Q71A0308	Bhogadi Prasanth	B	20
4	18Q71A0309	Bhyravabhatla Anil	B	20
5	18Q71A0310	Buddha Ramji Rupesh Santosh Kumar	B	20
6	18Q71A0311	Chalamala Sateesh	B	20
7	18Q71A0312	Chelluri Venkata Harshavardhan	B	20
8	18Q71A0314	Chukka Hemanth	B	20
9	19Q75A0332	Kasimkota Upendra	B	20
10	19Q75A0333	Katta Chandra Rao	B	20



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SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q75A0334	Maddala Pavankumar	C	60
2	19Q75A0335	Nadimpalli Vijay Kumar Varma	C	60
3	19Q71A0353	Voleti Praveen Kumar	C	60
4	19Q71A0354	Gumpa Bhanuchandar	C	60
5	19Q71A0355	Koppara Sai Kumar	C	60
6	19Q71A0356	Nammi Naga Jyothi Swaroop	C	60
7	20Q75A0362	Agathmudi Yashwanth	C	60
8	20Q75A0363	Alugolu Sai Mohan	C	60
9	20Q75A0364	Amalapuram Sekhar	C	60
10	20Q75A0365	Ambati Sandeep	C	60

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	20Q75A0366	Animireddy Chaitanya Kumar	D	30
2	20Q75A0367	Bagadi Murali	D	30
3	20Q75A0368	Battina Sai Prashant	D	30
4	20Q71A0348	Behara Bharadwaja Patnaik	D	30
5	20Q71A0349	Billa Sekhar	D	30
6	20Q71A0350	Bodha Sai Tharun	D	30
7	20Q71A0351	Bonthu Satish	D	30
8	20Q71A0353	Dasari Hari	D	30
9	21Q75A0320	Mantrabudi Naresh	D	30
10	21Q75A0322	Masabathul Tirupathi Rao	D	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	21Q75A0323	Meesala Ravi Kumar	E	45
2	21Q75A0324	Mohammed Sohail	E	45
3	21Q75A0325	Morchi Shanmukha	E	45
4	21Q75A0326	Padagala Durgaprasad	E	45
5	21Q71A0301	Dasari Karthik	E	45
6	21Q71A0302	J Satish Reddy	E	45
7	21Q71A0303	Jogi Maharaju	E	45
8	21Q71A0304	Kirru Pavan	E	45
9	21Q71A0305	Kovvuru Chandrakala Divakar	E	45
10	21Q71A0306	Lingampalli Gopisaikanth	E	45

Result: After the analysis of student's performance in Quiz program as listed above, the winner was announced by HOD: Group C

  
HOD-MECH

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Report on Quiz Program on "Electronics and Communication Engineering, Current Affairs & General knowledge"**

Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: All Students

Date: 26/02/2021

Mr. K.Avinash Kumar, Assist. Prof, has conducted a Quiz Program on "" for All year students. 320 members have participated in the Technical fest event. This program was organized under the guidance of Mr. V.Siva Bhaskar Rao, HOD, Electronics and Communication Engineering Engineering.

The total strength was divided into 10 groups. The event was started by introducing about the Quiz program and giving instructions to the students, by the concern faculty. And then he started asking questions the students who knows the answer are giving answers.

Students are actively participated the program and they exposed to learn more beyond the subject. They are showing interest to attend this type of programs in our institution. They get motivated by the faculty to participate such programs.



**"Current Affairs & General knowledge"**

Academic Year: 2020-2021

Timings: 10:20 AM to 11:20 AM

B.Tech Year/Semester: Participated students

Date: 26/02/2021

The Question Paper for Quiz Program on "Electronics and Communication Engineering

1. At room temperature the current in an intrinsic semiconductor is due to
  - A. holes
  - B. electrons
  - C. ions
  - D. holes and electrons
  
2. Work function is the maximum energy required by the fastest electron at 0 K to escape from the metal surface.
  - A. True
  - B. False
  
3. The most commonly used semiconductor material is
  - A. silicon
  - B. germanium
  - C. mixture of silicon and germanium
  - D. none of the above
  
4. In which of these is reverse recovery time nearly zero?
  - A. Zener diode
  - B. Tunnel diode
  - C. Schottky diode
  - D. PIN diode
  
5. A transistor has a current gain of 0.99 in the CB mode. Its current gain in the CC mode is
  - A. 99
  - B. 1.01
  - C. 0.99
  
6. In  $p-n-p$  transistor the current  $I_E$  has two components viz.  $I_{Ep}$  due to injection of holes from  $p$ -region to  $n$ -region and  $I_{En}$  due to injection of electrons from  $n$ -region to  $p$ -region. Then
  - A.  $I_{Ep}$  and  $I_{En}$  are almost equal
  - B.  $I_{Ep} \gg I_{En}$
  - C.  $I_{En} \gg I_{Ep}$
  - D. either (a) or (c)
  
7. In an  $n$  channel JFET, the gate is
  - A.  $n$  type
  - B.  $p$  type
  - C. either  $n$  or  $p$



- D. partially  $n$  & partially  $p$
8. The amount of photoelectric emission current depends on
- frequency of incident radiation
  - intensity of incident radiation
  - both frequency and intensity of incident radiation
  - none of the above
9. **Assertion (A):** A  $p$ - $n$  junction has high resistance in reverse direction.  
**Reason (R):** When a reverse bias is applied to  $p$ - $n$  junction, the width of depletion layer increases.
- Both A and R are true and R is correct explanation of A
  - Both A and R are true but R is not a correct explanation of A
  - A is true but R is false
  - A is false but R is true
10. At very high temperatures the extrinsic semiconductors become intrinsic because drive in diffusion of dopants and carriers
- band to band transition dominants over impurity ionization
  - impurity ionization dominants over band to band transition
  - band to band transition is balanced by impurity ionization
11. 2's complement of binary number 0101 is
- 1011
  - 1111
  - 1101
  - 1110
12. An OR gate has 4 inputs. One input is high and the other three are low. The output
- is low
  - is high
  - is alternately high and low
  - may be high or low depending on relative magnitude of inputs
13. Decimal number 10 is equal to binary number
- 1110
  - 1010
  - 1001
  - 1000
14. Both OR and AND gates can have only two inputs.
- True
  - False
15. A device which converts BCD to seven segment is called
- encoder



- B. decoder  
C. multiplexer  
D. none of these
- 16..In 2's complement representation the number 11100101 represents the decimal number  
A. +37  
B. -31  
C. +27  
D. -27
- 17.A decade counter skips  
A. binary states 1000 to 1111  
B. binary states 0000 to 0011  
C. binary states 1010 to 1111  
D. binary states 1111 to higher
- 18.BCD input 1000 is fed to a 7 segment display through a BCD to 7 segment decoder/driver.  
The segments which will lit up are  
A. *a, b, d*  
B. *a, b, c*  
C. all  
D. *a, b, g, c, d*
- 19.A ring counter with 5 flip flops will have  
A. 5 states  
B. 10 states  
C. 32 states  
D. infinite states
- 20..A cordless telephone using separate frequencies for transmission in base and portable units is known as  
A. duplex arrangement  
B. half duplex arrangement  
C. either (a) or (b)  
D. neither (a) nor (b)
- 21.For attenuation of high frequencies we should use  
A. shunt capacitance  
B. series capacitance  
C. inductance  
D. resistance
- 22..A modem is classified as low speed if data rate handled is  
A. upto 100 bps  
B. upto 250 bps  
C. upto 400 bps



- D. upto 600 bps
- 23..VSB modulation is preferred in TV because
- A. it reduces the bandwidth requirement to half
  - B. it avoids phase distortion at low frequencies
  - C. it results in better reception
  - D. none of the above
- 24..A woofer should be fed from the input through a
- A. low pass filter
  - B. high pass filter
  - C. band pass filter
  - D. band stop filter
- 25.In colour TV receiver, varactor diode is used for
- A. detection
  - B. rectification
  - C. tuning
  - D. both (a) and (b)



**The Question Paper for Quiz Program on Current Affairs**

1. OIC (Organisation of Islamic Cooperation) urges India to take "urgent steps" to protect the rights of its minority Muslim community. Where is Headquarters of OIC?

1. Damascus, Syria
2. Lahore, Pakistan
3. Mecca, Saudi Arabia
4. Jeddah, Saudi Arabia

2. Chinese Language Day is observed on which date?

1. 15 April
2. 18 April
3. 20 April
4. 25 April

3. World liver day was observed on which date?

1. April 21
2. April 14
3. April 18
4. April 19

4. The largest number of nests of rare leatherback sea turtles are observed in Thailand beaches. Who is current Prime Minister of Thailand?

1. Abhisit Vejjajiva
2. Chavarat Charnvirakul
3. Yingluck Shinawatra
4. Prayut Chan-o-cha

5. BMW Group President and CEO passed away on 20 April due to cardiac arrest. What was his name?

1. Rudratej Singh
2. Sunil Duggal
3. Francisco D'Souza
4. Gopal Vittal

6. Which State became the first state in India to geotag its 7,368 community kitchens and community shelters across 75 districts which produce 12 lakh food packets a day?

1. Himachal Pradesh
2. Andhra Pradesh
3. Madhya Pradesh
4. Uttar Pradesh

7. Which State has been the worst affected due to the Coronavirus pandemic in India?

1. Odisha
2. Jharkhand
3. Maharashtra
4. Haryana



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8. Which institute has developed an efficient, low-cost electro-catalyst from fish gills that can help develop environmentally friendly renewable energy conversion and storage technologies?

- A. The Indian Institute of Science
- B. Jawaharlal Nehru Centre for Advanced Scientific Research
- C. Translational Health Science and Technology Institute (THSTI), Faridabad
- D. Institute of Nano Science and Technology (INST), Mohali

9. Govt says supply of non-essential goods by e-commerce companies to remain prohibited during lockdown. The second phase of lockdown will be lifted on which date?

- A. 1 May
- B. 2 May
- C. 3 May
- D. 6 May

10. Minister of Health and Family Welfare Dr. Harsh Vardhan participated in the video conference of the Health Ministers of G20 countries. When was G20 group Founded?

- A. 1998
- B. 1999
- C. 1997
- D. 2000

11. Which institute has developed 'bug sniffer,' a sensitive and low-cost sensor to rapidly detect bacteria?

- A. Agharkar Research Institute (ARI), Pune
- B. Indian Institute of Technology (IIT), Mandi
- C. Jawaharlal Nehru Centre for Advanced Scientific Research
- D. Institute of Nano Science and Technology (INST), Mohali

12. Which institute has discovered hundreds of Lithium (Li)-rich giant stars which proves Li is being produced in the stars and accounts for its abundance in the interstellar medium?

- A. NASA
- B. Indian Institute of Astrophysics
- C. ISRO
- D. Roscosmos

13. Which institute has developed a magnetic Random Access Memory (RAM) which is faster, more energy-efficient and capable of storing more information in a smaller volume than existing data storage technologies?

- A. Indian Institute of Technology (IIT), Mandi
- B. The Indian Institute of Science
- C. Jawaharlal Nehru Centre for Advanced Scientific Research
- D. Institute of Nano Science and Technology (INST), Mohali



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14. When will NASA launch first crewed mission to International Space Station (ISS) since the retirement of Space Shuttle Program in 2011?

- A. May 27, 2020
- B. April 27, 2020
- C. May 30, 2020
- D. April 30, 2020

15. The Ministry of Road Transport and Highways launched a dashboard link on its website on to provides a list and details of Dhabas and Truck repair shops available across the country by various organizations like the National Highways Authority of India (NHAI), States. When was NHAI founded?

- A. 1978
- B. 1968
- C. 1998
- D. 1988

16. A new study by the International Institute for Sustainable Development (IISD) report stated that India's renewable energy subsidies fell by how much percent between 2016-17 and 2018-19?

- A. 50%
- B. 40%
- C. 35%
- D. 15%

17. Government of India has created an online data pool of doctors including AYUSH doctors, nurses and other health care professionals, volunteers from NCC, NSS, PMKVY, ex-Servicemen, etc which aims for use by the ground level administration at state, district or municipal levels. Who is Director General of NCC?

- A. Lt Gen Rajeev Chopra
- B. Lt Gen Iqroop Singh Ghuman
- C. Lt Gen Satinder Kumar Saini
- D. Lt Gen Yogesh Kumar Joshi

18. Which institute has developed a new Artificial Neural Networks based global Ionospheric Model (ANNIM), a global model to predict the ionospheric electron density with larger data coverage?

- A. Jawaharlal Nehru Centre for Advanced Scientific Research
- B. The Indian Institute of Science
- C. Indian Institute of Geomagnetism (IIG), Navi Mumbai
- D. Institute of Nano Science and Technology (INST), Mohali

19. Government of India formed a high-level task force to research on coronavirus and develop a vaccine. The high-level task force will be co-chaired by Member, NITI Aayog, and Principal Scientific Adviser to the Government of India. Who is Principal Scientific Adviser to the Government of India?

- A. Arun Bhardwaj



- B. Shailja Vaidya
- C. K Vijay Raghavan
- D. Arabinda Mitra

20. Samir Goswami dies aged 65 in Kolkata. He was a famous person of which field?
- A. Singer
  - B. Politician
  - C. Cricketer
  - D. Sports journalist

**The Question Paper for Quiz Program on General knowledge**

1. Grand Central Terminal, Park Avenue, New York is the world's
  - A. largest railway station
  - B. highest railway station
  - C. longest railway station
  - D. None of the above
2. Entomology is the science that studies
  - A. Behavior of human beings
  - B. Insects
  - C. The origin and history of technical and scientific terms
  - D. The formation of rocks
3. Eritrea, which became the 182nd member of the UN in 1993, is in the continent of
  - A. Asia
  - B. Africa
  - C. Europe
  - D. Australia
4. Garampani sanctuary is located at
  - A. Junagarh, Gujarat
  - B. Diphu, Assam
  - C. Kohima, Nagaland
  - D. Gangtok, Sikkim
5. For which of the following disciplines is Nobel Prize awarded?
  - A. Physics and Chemistry
  - B. Physiology or Medicine
  - C. Literature, Peace and Economics
  - D. All of the above
6. Hitler party which came into power in 1933 is known as
  - A. Labour Party
  - B. Nazi Party

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- C. Ku-Klux-Klan
- D. Democratic Party

7.FFC stands for

- A. Foreign Finance Corporation
- B. Film Finance Corporation
- C. Federation of Football Council
- D. None of the above

8.Fastest shorthand writer was

- A. Dr. G. D. Bist
- B. J.R.D. Tata
- C. J.M. Tagore
- D. Khudada Khan

9.Epsom (England) is the place associated with

- A. Horse racing
- B. Polo
- C. Shooting
- D. Snooker

10.First human heart transplant operation conducted by Dr. Christiaan Barnard on Louis Washkansky, was conducted in

- A. 1967
- B. 1968
- C. 1958
- D. 1922



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B.Tech Year/Semester: Participated students

Date: 26/02/2021

**ONLINE ATTENDANCE SHEET**

SI.NO	REGD.NO	NAME OF THE STUDENT	SIGN
1	17Q71A0405	Annamreddy Pavan Kumar	Attended
2	17Q71A0408	Badi Arun Kumar	Attended
3	17Q71A0409	Behara Sairam Charan	Attended
4	17Q71A0410	Botsa Hiteswar	Attended
5	18Q75A0401	Bommireddipalli Ranjithkumar	Attended
6	18Q75A0403	Konna Dileep Kumar	Attended
7	18Q75A0404	Lalam Chandrasekhar	Attended
8	18Q75A0405	Lekkala Radha	Attended
9	18Q75A0406	Maneddi Modayanthi	Attended
10	18Q75A0407	Munjuluri Venkata Lakshmi	Attended
11	18Q75A0408	Singaparapu Kranthi Kumar	Attended
12	18Q71A0407	Durgasi Pujitha	Attended
13	18Q71A0408	Erothi Swetha	Attended
14	18Q71A0409	Eti Navya Sree	Attended
15	18Q71A0410	Ganta Vadavathi	Attended
16	18Q71A0411	Gembali Sarayu	Attended
17	18Q71A0412	Golukonda Sathish	Attended
18	18Q71A0413	Gudivada Bhargavi	Attended
19	19Q75A0401	Adapaka Siri Chandana	Attended
20	19Q75A0402	Bheemarasetty Tagore Ganesh	Attended
21	19Q75A0403	Bojja Bhavani Venkatalakshmi	Attended
22	19Q75A0404	Botta Venkata Varaha Naga Bhumika	Attended
23	19Q75A0405	Giduthuri Sharmila	Attended
24	19Q75A0406	Kaithi Teja Shanmukh Durga	Attended
25	19Q75A0407	Kodidasu Teja	Attended
26	19Q75A0408	Majji Madhu Venkatamanivenkateswararao	Attended
27	20Q75A0401	Bugatha Gowrinadh	Attended
28	20Q75A0402	Bylapudi Sai Ganesh	Attended
29	20Q75A0403	Choda Baby Bhuvana Sri	Attended
30	20Q75A0404	Chinthamreddy Kruparani	Attended
31	20Q75A0405	Gude Swetha	Attended
32	20Q75A0406	Karri Gnana Pradeep	Attended
33	20Q75A0407	Malasala Devi	Attended

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34	20Q71A0401	Anupoju Sai Sujith	Attended
35	20Q71A0402	Anupoju Satya Aman	Attended
36	20Q71A0403	Balireddy Ravi Kiran	Attended
37	20Q71A0404	Bhogavalli Nanda Kishore Sai	Attended
38	20Q71A0405	Bodapati Jyostna Priya	Attended
39	20Q71A0406	Bonumaddi Ganesh	Attended
40	20Q71A0407	Botsa Swetha	Attended
41	20Q71A0408	Chitturi Tulasi	Attended
42	20Q71A0409	Dipti Behara	Attended
43	20Q71A0410	Doddi Venkatesh	Attended
44	20Q71A0411	Duda Deepak	Attended
45	20Q71A0412	Durga Madhavi Latha	Attended
46	20Q71A0413	Kusumanchi Vasavi	Attended
47	20Q71A0414	Gadu Eswara Rao	Attended
48	20Q71A0415	Gampa Rupesh Kumar	Attended
49	20Q71A0416	Gembali Bhavani	Attended
50	20Q71A0417	Gorla Venkata Ganapathi Vamsi Krishna	Attended



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**Current Affairs & General knowledge"**

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B.Tech Year/Semester: Participated students

Date: 26/02/2021

**MARKS**

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0405	Annamreddy Pavan Kumar	A	30
2	17Q71A0408	Badi Arun Kumar	A	30
3	17Q71A0409	Behara Sairam Charan	A	30
4	17Q71A0410	Botsa Hiteswar	A	30
5	18Q75A0401	Bommireddipalli Ranjithkumar	A	30
6	18Q75A0403	Konna Dileep Kumar	A	30
7	18Q75A0404	Lalam Chandrasekhar	A	30
8	18Q75A0405	Lekkala Radha	A	30
9	18Q75A0406	Maneddi Modayanthi	A	30
10	18Q75A0407	Munjuluri Venkata Lakshmi	A	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q75A0408	Singaparapu Kranthi Kumar	B	20
2	18Q71A0407	Durgasi Pujitha	B	20
3	18Q71A0408	Erothi Swetha	B	20
4	18Q71A0409	Eti Navya Sree	B	20
5	18Q71A0410	Ganta Vadavathi	B	20
6	18Q71A0411	Gembali Sarayu	B	20
7	18Q71A0412	Golukonda Sathish	B	20
8	18Q71A0413	Gudivada Bhargavi	B	20
9	19Q75A0401	Adapaka Siri Chandana	B	20
10	19Q75A0402	Bheemarasetty Tagore Ganesh	B	20



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SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MAR KS
1	19Q75A0403	Bojja Bhavani Venkatalakshmi	C	60
2	19Q75A0404	Botta Venkata Varaha Naga Bhumika	C	60
3	19Q75A0405	Giduthuri Sharmila	C	60
4	19Q75A0406	Kaithi Teja Shanmukh Durga	C	60
5	19Q75A0407	Kodidasu Teja	C	60
6	19Q75A0408	Majji Madhu Venkatamanivenkateswararao	C	60
7	20Q75A0401	Bugatha Gowrinadh	C	60
8	20Q75A0402	Bylapudi Sai Ganesh	C	60
9	20Q75A0403	Choda Baby Bhuvana Sri	C	60
10	20Q75A0404	Chinthamreddy Kruparani	C	60

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	20Q75A0405	Gude Swetha	D	30
2	20Q75A0406	Karri Gnana Pradeep	D	30
3	20Q75A0407	Malasala Devi	D	30
4	20Q71A0401	Anupaju Sai Sujith	D	30
5	20Q71A0402	Anupaju Satya Aman	D	30
6	20Q71A0403	Balireddy Ravi Kiran	D	30
7	20Q71A0404	Bhogavalli Nanda Kishore Sai	D	30
8	20Q71A0405	Bodapati Jyostna Priya	D	30
9	20Q71A0406	Bonumaddi Ganesh	D	30
10	20Q71A0407	Botsa Swetha	D	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROU P	MARK S
1	20Q71A0408	Chitturi Tulasi	E	45
2	20Q71A0409	Dipti Behara	E	45
3	20Q71A0410	Doddi Venkatesh	E	45
4	20Q71A0411	Duda Deepak	E	45
5	20Q71A0412	Durga Madhavi Latha	E	45
6	20Q71A0413	Kusumanchi Vasavi	E	45
7	20Q71A0414	Gadu Eswara Rao	E	45
8	20Q71A0415	Gampa Rupesh Kumar	E	45
9	20Q71A0416	Gembali Bhavani	E	45
10	20Q71A0417	Gorla Venkata Ganapathi Vamsi Krishna	E	45

Result: After the analysis of student's performance in Quiz program as listed above, the winner was announced by HOD: Group C

Head of the Department  
Electronics & Communication Engineering  
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HOD-ECE  
Cherukupally (VIII), Bhogapuram (M),  
VIZIANAGARAM (DIST)

Avanthi Institute of Engineering and Technology



Report on Quiz Program on "Computer Science and Engineering, Current Affairs & General  
knowledge"

Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: All Students

Date: 26/02/2021

MR. S.Kesava Rao, Assist. Prof, has conducted a Quiz Program on "" for All year students. 320 members have participated in the Technical fest event. This program was organized under the guidance of Dr.Akula Chandra Sekhar, HOD, |Computer Science Engineering.

The total strength was divided into 10 groups. The event was started by introducing about the Quiz program and giving instructions to the students, by the concern faculty. And then he started asking questions the students who knows the answer are giving answers.

Students are actively participated the program and they exposed to learn more beyond the subject. They are showing interest to attend this type of programs in our institution. They get motivated by the faculty to participate such programs.



Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: Participated students

Date: 26/02/2021

### The Question Paper

1. Which of the following metals forms an amalgam with other metals?
  - a) Tin
  - b) Mercury
  - c) Lead
  - d) Zinc
  
2. A system program that combines the separately compiled modules of a program into a form suitable for execution
  - a) assembler
  - b) linking loader
  - c) cross compiler
  - d) load and go
  - e) None of the above
  
3. Memory management is :
  - a) not used in modern operating system
  - b) replaced with virtual memory on current systems
  - c) not used on multiprogramming systems
  - d) critical for even the simplest operating systems
  - e) None of the above
  
4. Which command is used to terminate a process?
  - a) shutdown
  - b) haltsys
  - c) cancel
  - d) kill
  - e) None of the above
  
5. While working with mail command, which command is used to save mail in a separate file?
  - a) s
  - b) r
  - c) w
  - d) d
  - e) None of the above



6. Which of the following directories contain all the Alias created by a user, including his login directory?
  - a)/tmp
  - b)/etc
  - c)/usr
  - d)/dev
  - e)None of the above
  
7. The % key allows you
  - a)to move the cursor to a matching delimiter, when a delimiters a parenthesis, a bracket, or a brace.
  - b)to move the cursor to the upperleft corner of the screen
  - c)to move the cursor backward to the beginning of a word
  - d)to move the cursor to the first column in the current line
  - e)None of the above
  
8. The list of coded instructions is called
  - a)Computer program
  - b)Algorithm
  - c)Flowchart
  - d)Utility programs
  - e)None of the above
  
9. A program that is employed in the development, repair or enhancement of other programs is known as
  - a)System software
  - b)Software tool
  - c)Applications program
  - d)Utility program
  - e)None of the above
  
10. Which output device is used for translating information from a computer into pictorial form on paper.
  - a)Mouse
  - b)Plotter
  - c)Touch panel
  - d)Card punch
  - e)None of the above
  
11. A general purpose single-user microcomputer designed to be operated by one person at a time is
  - a)Special-purpose computer
  - b)KIPS
  - c)M
  - d)PC
  - e)None of the above



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12. A systems programming language for microcomputers in the Intel family is
- a) PL/C
  - b) PL/CT
  - c) PL/M
  - d) PLA
  - e) None of the above
13. Is the symbol of gold?
- a) Mg
  - b) Hg
  - c) Ag
  - d) Au
14. Famous Swimmer Michel Flaps related to \_\_\_\_\_
- a) Australia
  - b) Narve
  - c) Switergerland
  - d) America
15. Which organization publishes 'World Development Report'?
- a) United Nations Development Programme (UNDP)
  - b) World Economic Forum
  - c) International Monetary Fund (IMF)
  - d) World Bank



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Date: 26/02/2021

ATTENDANCE SHEET

SLNO	REGD.NO	NAME OF THE STUDENT	SIGN
1	17Q71A0519	Chekka Saliyam Raju	Attended
2	17Q71A0548	Maradana Anusha	Attended
3	17Q71A0521	Chodi Jayasurya	Attended
4	17Q71A0555	Mylapilli Bala Krishna	Absent
5	17Q71A0553	Mirtivada Sneha	Attended
6	17Q71A0563	Pachilla Saranya	Attended
7	17Q71A0573	Potnuru Nani Manikanth	Attended
8	17Q71A0585	Salaadhi Decksha	Attended
9	17Q71A0591	Surisetty Janaki Ram Sai Sampath	Attended
10	17Q71A0593	Tangudu Neelakantam	Attended
11	17Q71A0597	Uppala Hashini	Absent
12	18Q71A0505	Anusuri Priyanka	Attended
13	18Q71A0508	Bankapalli Sravani	Attended
14	18Q71A0513	Bonam Navya Sri Lekha	Attended
15	18Q71A0519	Gadi Pratap Sai	Attended
16	18Q71A0523	Giridhar Patro	Attended
17	18Q71A0527	Jammala Deekesh	Attended
18	18Q71A0534	Kallepalli Venkata Kiran Mai	Attended
19	18Q71A0539	Karri Varaprasad	Attended
20	18Q71A0543	Kotni Mounika	Attended
21	18Q71A0549	Routhu Oliverson	Attended
22	18Q71A0558	Miriyala Hemalatha	Attended
23	19Q71A0509	Aripaka Shivamani Kumar	Attended
24	19Q71A0511	Ayyala Sai Jyothirmayi	Attended
25	19Q71A0514	Badireddi Girija Priya	Attended
26	19Q71A0518	Behara Poojitha	Attended
27	19Q71A0522	Bole Priyanka	Attended
28	19Q71A0517	Yanapu Sasi Kumar	Attended
29	19Q71A0519	Yellapu Nandini Sai	Attended
30	19Q71A05J3	Gantyada Haritha	Attended
31	20Q75A0501	Penumatsa Avs Satya Narayana Raju	Attended
32	20Q75A0503	Allam Praveen	Attended
33	20Q75A0504	Sonayala Sravani	Attended

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34	20Q71A0504	Balaga Mounika	Attended
35	20Q71A0510	Bonu Eswararao	Attended
36	20Q71A0515	Daketi Rambabu	Attended
37	20Q71A0521	Kalluri Venkata Sai	Attended
38	20Q71A0527	Koratana Mouli	Attended
39	20Q71A0532	Kankana Harish	Attended
40	20Q71A0578	Karri Chitra Swarupa	Attended
41	20Q71A0589	Muppidi Dhanush	Attended
42	20Q71A05A1	Rayudu Mohith Phani Raj	Attended
43	21Q75A0509	Kandipalli Anusha	Attended
44	21Q75A0516	Manepalli Chandra Mouli	Absent
45	21Q71A0505	Alla Nuthana Prasanna	Attended
46	21Q71A0514	Bantupalli Prasad	Attended
47	21Q71A0558	Kakkala Nithin	Attended
48	21Q71A0570	Chelluri Arun Kumar Naidu	Attended
49	21Q71A0589	Majji Pradeep	Absent
50	21Q71A05E4	Reddi Lavanya	Attended



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Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

B.Tech Year/Semester: Participated students

Date: 26/02/2021

MARKS

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0519	Chekkala Saliyam Raju	A	30
2	17Q71A0548	Maradana Anusha	A	30
3	17Q71A0521	Chodi Jayasurya	A	30
4	17Q71A0555	Mylapilli Bala Krishna	A	30
5	17Q71A0553	Mirtivada Sneha	A	30
6	17Q71A0563	Pachilla Saranya	A	30
7	17Q71A0573	Potnuru Nani Manikanth	A	30
8	17Q71A0585	Salaadhi Deeksha	A	30
9	17Q71A0591	Surisetty Janaki Ram Sai Sampath	A	30
10	17Q71A0593	Tangudu Neelakantam	A	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	17Q71A0597	Uppala Hashini	B	20
2	18Q71A0505	Anusuri Priyanka	B	20
3	18Q71A0508	Bankapalli Sravani	B	20
4	18Q71A0513	Bonam Navya Sri Lekha	B	20
5	18Q71A0519	Gadi Pratap Sai	B	20
6	18Q71A0523	Giridhar Patro	B	20
7	18Q71A0527	Jammala Deekesh	B	20
8	18Q71A0534	Kallepalli Venkata Kiran Mai	B	20
9	18Q71A0539	Karri Varaprasad	B	20
10	18Q71A0543	Kotni Mounika	B	20



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SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	18Q71A0549	Routhu OliverSam	C	60
2	18Q71A0558	Miriyala Hemalatha	C	60
3	19Q71A0509	Aripaka Shivamani Kumar	C	60
4	19Q71A0511	Ayyala Sai Jyothirmayi	C	60
5	19Q71A0514	Badireddi Girija Priya	C	60
6	19Q71A0518	Behara Poojitha	C	60
7	19Q71A0522	Bole Priyanka	C	60
8	19Q71A05I7	Yanapu Sasi Kumar	C	60
9	19Q71A05I9	Yellapu Nandini Sai	C	60
10	19Q71A05J3	Gantyada Haritha	C	60

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	20Q75A0501	Penumatsa Avs Satya Narayana Raju	D	30
2	20Q75A0503	Allam Praveen	D	30
3	20Q75A0504	Sonayala Sravani	D	30
4	20Q71A0504	Balaga Mounika	D	30
5	20Q71A0510	Bonu Eswararao	D	30
6	20Q71A0515	Daketi Rambabu	D	30
7	20Q71A0521	Kalluri Venkata Sai	D	30
8	20Q71A0527	Koratana Mouli	D	30
9	20Q71A0532	Kankana Harish	D	30
10	20Q71A0578	Karri Chitra Swarupa	D	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	20Q71A0589	Muppidi Dhanush	E	45
2	20Q71A05A1	Rayudu Mohith Phani Raj	E	45
3	21Q75A0509	Kandipalli Anusha	E	45
4	21Q75A0516	Manepalli Chandra Mouli	E	45
5	21Q71A0505	Alla Nuthana Prasanna	E	45
6	21Q71A0514	Bantupalli Prasad	E	45
7	21Q71A0558	Kakkala Nithin	E	45
8	21Q71A0570	Chelluri Arun Kumar Naidu	E	45
9	21Q71A0589	Majji Pradeep	E	45
10	21Q71A05E4	Reddi Lavanya	E	45

Result: After the analysis of student's performance in Quiz program as listed above, the winner was announced by HOD: Group D

Head of the Department  
Computer Science and Engineering  
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**DEPARTMENT OF MANAGEMENT STUDIES**

Report on Quiz Program on "MBA, Current Affairs & General knowledge"

Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

MBA Year/Semester: All Students

Date: 03/02/2021

MR. S. Suman datta, Assist. Prof, has conducted a Quiz Program on "" for All year students. 140 members have participated in the event. This program was organized under the guidance of Dr V Sai prashanth, HOD, MBA.

The total strength was divided into 10 groups. The event was started by introducing about the Quiz program and giving instructions to the students, by the concern faculty. And then he started asking questions the students who knows the answer are giving answers.

Students are actively participated the program and they exposed to learn more beyond the subject. They are showing interest to attend this type of programs in our institution. They get motivated by the faculty to participate such programs.



1. In which city a National level business meet was organized by CPWD?
  - a. New Delhi
  - b. Mumbai
  - c. Kolkata
  - d. Chennai
2. With which of the following company Vistara Linked code share agreement?
  - a. Spice Jet
  - b. Indigo
  - c. Lufthansa
  - d. Jet Airways
3. Which bank used “Net Safe Credit Card”?
  - a. HDFC
  - b. Kotak Mahindra
  - c. SBI
  - d. ICICI
4. Which of the companies has decided to change its health insurance policy so their LGBT employees can reap the benefits?
  - a. Infosys
  - b. TCS
  - c. ITC
  - d. HUL
5. With which country has India signed MOC to strengthen their cooperation in the Steel sector?
  - a. Russia
  - b. UK
  - c. America
  - d. Japan
6. With whom has BSNL partnered to let users connect to nearby WI-Fi Hotspot?
  - a. GPay
  - b. Paytm
  - c. PhonePe
  - d. Freecharge
7. Which financial institution has launched a ‘green’ bond fund for central banks to promote green finance?
  - a. Bank for International Settlements
  - b. Reserve Bank of India
  - c. World Bank
  - d. Asian Development Bank



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8. Which Indian organization has discovered 30 reels of unedited footage on Mahatma Gandhi?
- National Film Archive of India
  - Niti Ayog
  - World Bank
  - NFDC
9. What is the name of the Family store owned by Sanjeev Goenka?
- More
  - Spencers
  - Big Bazaar
  - DMart
10. Which telecom company has topped in the April-June Quarter?
- Airtel
  - Vodafone
  - Jio
  - BSNL
11. Which is the e-commerce portal that the Union Government is planning to launch for MSMEs for marketing and selling their products?
- Bharat Craft
  - Indian Craft
  - Crafty Craft
12. Which company has launched a program of training 5000 Government employees?
- Facebook
  - Instagram
  - Microsoft India
  - Google India
13. Which company launched a Military Veterans Employment Program in partnership with DGR and AWPO?
- Flipkart
  - Netflix
  - Amazon
  - Myntra
14. Who is the CEO of the Federation of Indian Export Organization?
- Ashwini Kumar
  - Ajay Rathore
  - Dr. Ajay Sahai
  - Ajay Mudgal
15. Which company has launched its first artificial intelligence chip "Spring Hill"?
- HP
  - IBM

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c. Intel Corp

d. Lenovo

16. Which company acquired a 49% stake in Kishore Biyani-led Future Coupons Ltd. recently?

a. Walmart

b. AliExpress

c. Flipkart

d. Amazon

17. Which company has partnered with PayU to offer card less EMI payment option to its customers?

a. Money Tap

b. Zest Money

c. Paytm

d. Baja Finserv

18. SAARC was formed in which month and year?

a. December 1985

b. January 1987

c. October 1985

d. April 1995



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Academic Year: 2020-2021

Timings: 10:20 am to 11:20 am

MBA Year/Semester: Participated students

Date: 03/02/2021

ATTENDENCE SHEET

SI.NO	REGD.NO	NAME OF THE STUDENT	SIGN
1	19Q71E0001	Allada Nagamani	Attended
2	19Q71E0002	Anilkumar Boora	Attended
3	19Q71E0003	Appikonda Karunakar	Attended
4	19Q71E0004	Atchi Gowthami	Absent
5	19Q71E0005	Atmakuri Raju	Attended
6	19Q71E0006	Attada Pavitra	Attended
7	19Q71E0007	Bangaru Santoshi Kumari	Attended
8	19Q71E0008	Barri Jyothi Venkata Sravani	Attended
9	19Q71E0009	Bayyavarapu Dhanalakshmi	Attended
10	19Q71E0010	Behera Santosh Kumar	Attended
11	19Q71E0012	Boni Siva Rama Krishna	Attended
12	19Q71E0013	Buddala Sri Devi	Attended
13	19Q71E0014	Chappa Praveen Kumar	Absent
14	19Q71E0015	Chellumahanthi Jeevitha	Absent
15	19Q71E0016	Chintala Srikanth	Absent
16	19Q71E0020	D Sarat Chandra Reddy	Absent
17	19Q71E0021	D Shyamala	Attended
18	19Q71E0022	Dalasari Krishnam Raju	Attended
19	19Q71E0023	Eerugula Rajeswari	Attended
20	19Q71E0024	Dharmavarapu Sai Divya	Attended
21	19Q71E0025	Doddi Durga Bhavani	Attended
22	19Q71E0026	Dokala Bhargavi	Attended
23	19Q71E0049	Kuriti Raveendra	Attended
24	19Q71E0050	Lanka Lakshmi Divyasai	Attended
25	19Q71E0051	Lekkala Sunny Sunil Kumar	Attended
26	19Q71E0052	Madugula Kishore	Attended
27	19Q71E0080	Pragada Sekhar	Attended
28	19Q71E0081	Pudi Kiran Kumar	Attended
29	19Q71E0082	Pulaparthi Vandana	Attended
30	20Q71E0002	Abdul Feroz Khan	Attended
31	20Q71E0003	Achanti Siva Sankar	Absent
32	20Q71E0004	Addagarla Ksheerabohi	Absent

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33	20Q71E0005	Addala Santosh Kumar	Attended
34	20Q71E0006	Akkandra Suresh	Absent
35	20Q71E0007	Alubilli Kailash	Attended
36	20Q71E0008	Bellana Lavanya	Attended
37	20Q71E0009	Baddi Lokesh	Attended
38	20Q71E0015	Billakurthi Purnitha Lakshmi Naga Rishita	Attended
39	20Q71E0016	Boddakayala Vardhan	Absent
40	20Q71E0017	Bogila Sai Sravanthi	Attended
41	20Q71E0018	Bokkalapalli Anirudh Reddy	Attended
42	20Q71E0026	Dumpa Akhil	Attended
43	20Q71E0027	G Anil Kumar	Attended
44	20Q71E0042	Korupolu Poorna Saiteja	Attended
45	20Q71E0043	Kumili Mohansai Gayatri Kumar	Attended
46	20Q71E0044	Kuppala Nitumala Satya Jyothi Neelima	Absent
47	20Q71E0045	Kurcacha Venkata Prasad	Attended
48	20Q71E0046	Lakkoji Naveen Kumar	Attended
49	20Q71E0062	Panapana Sireesha	Attended
50	20Q71E0063	Pedapati Sai Teja	Attended



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Timings: 10:20 am to 11:20 am

MBA Year/Semester: Participated students

Date: 26/02/2021

MARKS

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q71E0001	Allada Nagamani	A	30
2	19Q71E0002	Anilkumar Boora	A	30
3	19Q71E0003	Appikonda Karunakar	A	30
4	19Q71E0004	Atchi Gowthami	A	30
5	19Q71E0005	Atmakuri Raju	A	30
6	19Q71E0006	Attada Pavitra	A	30
7	19Q71E0007	Bangaru Santoshi Kumari	A	30
8	19Q71E0008	Barri Jyothi Venkata Sravani	A	30
9	19Q71E0009	Bayyavarapu Dhanalakshmi	A	30
10	19Q71E0010	Behera Santosh Kumar	A	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q71E0012	Boni Siva Rama Krishna	B	30
2	19Q71E0013	Buddala Sri Devi	B	30
3	19Q71E0014	Chappa Praveen Kumar	B	30
4	19Q71E0015	Chellumahanthi Jeevitha	B	30
5	19Q71E0016	Chintala Srikanth	B	30
6	19Q71E0020	D Sarat Chandra Reddy	B	30
7	19Q71E0021	D Shyamala	B	30
8	19Q71E0022	Dalasari Krishnam Raju	B	30
9	19Q71E0023	Eerugula Rajeswari	B	30
10	19Q71E0024	Dharmavarapu Sai Divya	B	30

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	19Q71E0025	Doddi Durga Bhavani	C	50
2	19Q71E0026	Dokala Bhargavi	C	50
3	19Q71E0049	Kuriti Raveendra	C	50
4	19Q71E0050	Lanka Lakshmi Divyasai	C	50
5	19Q71E0051	Lekkala Sunny Sunil Kumar	C	50
6	19Q71E0052	Madugula Kishore	C	50
7	19Q71E0080	Pragada Sekhar	C	50
8	19Q71E0081	Pudi Kiran Kumar	C	50
9	19Q71E0082	Pulaparthi Vandana	C	50
10	20Q71E0002	Abdul Feroz Khan	C	50



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SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	20Q71E0003	Achanti Siva Sankar	D	20
2	20Q71E0004	Addagarla Ksheerabohi	D	20
3	20Q71E0005	Addala Santosh Kumar	D	20
4	20Q71E0006	Akkandra Suresh	D	20
5	20Q71E0007	Alubilli Kailash	D	20
6	20Q71E0008	Bellana Lavanya	D	20
7	20Q71E0009	Baddi Lokesh	D	20
8	20Q71E0015	Billakurthi Purnitha Lakshmi Naga Rishita	D	20
9	20Q71E0016	Boddakayala Vardhan	D	20
10	20Q71E0017	Bogila Sai Sravanthi	D	20

SI.NO	REGD.NO	NAME OF THE STUDENT	GROUP	MARKS
1	20Q71E0017	Bogila Sai Sravanthi	E	45
2	20Q71E0018	Bokkalapalli Anirudh Reddy	E	45
3	20Q71E0026	Dumpa Akhil	E	45
4	20Q71E0027	G Anil Kumar	E	45
5	20Q71E0042	Korupolu Poorna Saiteja	E	45
6	20Q71E0043	Kumili Mohansai Gayatri Kumar	E	45
7	20Q71E0044	Kuppala Nirmala Satya Jyothi Neelima	E	45
8	20Q71E0045	Kurcacha Venkata Prasad	E	45
9	20Q71E0046	Lakkoji Naveen Kumar	E	45
10	20Q71E0062	Panapana Sireesha	E	45

Result: After the analysis of student's performance in Quiz program as listed above, the winner was announced by HOD: Group C

Head of the Department  
Master of Business Administration  
Avanathi Institute of Engineering & Technology  
Cherukupally, Bhogapuram, Vizianagaram, Dist.  
HOD-MBA



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## TUTORIALS

### DEPARTMENT OF CIVIL ENGINEERING

Date: 1/08/2020

#### Circular

This is information that all the Head of the Department should maintain the Academic Course file and same should be submit at the time of IQAC Audit. In that as per JNTUK indication 4 credit course must have its tutorial session. It should be reflect in the time table. Two class rooms need to be allocated and divide the two batches of each class students.

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**CLASS TIME TABLE AY :2020-21**

CLASS: II B. Tech-I SEM

w.e. f: 02-11-2020

Class In charge: R. Rohith								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	CVSM	SM-I	FM	LUNCH	Sur&G	BMC	TE-I	SPORTS /Remedial class
TUE	SM-I	BMC	Sur&G		CRT	SM Lab/ Backlog classes		
WED	BMC	FM			SM-I	CVSM	Sur&G	Library
THU	TE-I		BMC		SM-I	CoI		Tutorial
FRI	Sur&G	CVSM	FM		SM-I	SFW-I lab		
SAT	FM	BMC	CRT		TE-I		CVSM	SM-I

**CLASS TIME TABLE AY :2020-2021**

CLASS: III B. Tech- I SEM

w.e.f: 02-11-2020

Class In charge: P. S. S. Bharadwaj								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	EG	SA-II	TE-II	LUNCH	TE-II	DDRCS		MS
TUE	TE-II	SA-II	DDRCS		Library	CT Lab/ Backlog classes		
WED	Geology Lab				MS	Tutorial Classes	SA-II	EG
THU	DDRCS	EG	TE-II		MS	TE Lab		
FRI	EG	SA-II	DDRCS		Tutorial Classes		CRT	MS
SAT	SA-II	EG	MS		DDRCS	TE-II	CRT	SPORTS /Remedial class



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**CLASS TIME TABLE AY :2020-2021**

CLASS: IV B. Tech- I SEM

w.e. f. 02-11-2020

Class In charge: M. Sumathi								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	EE-II	WRE-II	CRT	LUNCH	GTE-II	EIAM	IPR	APC
TUE	APC	RS&GIS	EIAM		EE-II	GTE-II	WRE-II	SPORTS /Remedial class
WED	EIAM	APC	WRE-II		GTE-II	GIS & CAD Lab/ Backlog classes		
THU	WRE-II	RS&GIS	EE-II		APC	CRT	EIAM	Library/ Tutorial Classes
FRI	RS&GIS	GTE-II	EE-II		CRT	Irrigation Design & Drawing		
SAT	GTE-II	CRT	WRE-II		IPR	EE-II	WRE-II	RS&GIS



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**TUTORIAL CLASSES**

SUBJECT: Water Resource Engineering - II  
2020-2021

ACADEMIC YEAR: -

FACULTY NAME: M. Sumathi  
IV/I

YEAR/SEM: -

S.NO	DATE	TUTORIAL TOPIC	NO. OF STUDENTS PRESENT
1	05-11-2020	Principal crops and crop seasons,	29
2	19-11-2020	Soil-water-plant relationship,	30
3	26-11-2020	Duty and delta, factors affecting Duty, depth and frequency of irrigation,	33
4	03-12-2020	Design of non-erodible canals	32
5	10-12-2020	Kennedy's silt theory and Lacey's regime theory,	28
6	17-12-2020	Sarda type fall and straight glacis fall.	29
7	07-01-2021	Bligh's creep theory, Khosla's theory,	28
8	28-01-2021	Forces acting on a gravity dam,	27
9	11-02-2021	Limiting height of a dam,	27
10	18-02-2021	Design principles of ogee spillways,	30



TUTORIAL ASSIGNMENT

SUBJECT: Water Resource Engineering - II

Academic Year: -2020-2021

FACULTY NAME: M. Sumathi

Year/Sem: - IV/I

UNIT - I  
Irrigation

Definition : —

It is defined as the process of artificially supply water to the soil for raising crops.

It is a science of planning and designing an efficient low cost, economic irrigation system. It also includes the study and design of works in connection with river control, drainage of water logged areas and generation of hydro-electric power.

Necessity of Irrigation : —

1. Less Rainfall : — when rainfall is insufficient for the crop artificial supply is necessary. In this case irrigation works may be constructed at place where more water is more available and convey water to the area where there is deficiency of water.

2. Non uniform Rainfall : —

when rainfall is not uniform over the area crop period for a particular area. So with this non uniform rainfall, the yield of crops will be less and some times crops may die. So by the collection of water during excess rainfall period, water is supplied to the crop during the period, where there is no rainfall.

(3). Growing a Number of crops during a year : —

Some areas have rainfall to raise only one type of crop during the rainy season (i.e. Kharif crops) there is no irrigation required. But beyond the season



(Kharif). Rabi season crops will be there, and irrigation has to be done.

④ Growing perennial crops: —

perennial crops as sugarcane etc. which are needed throughout the year, can be raised only by (supplying water) irrigation in that area.

⑤ Commercial crops with additional water: —

Some of the crops are commercial or cash crops, so for their usual raise. (irrigation). Sufficient quantity of water has to send.

⑥ Controlled water supply: —

By the construction of proper distribution system, the yield of the crop may be increased because of controlled supply of water.



## Principal crops and crop seasons :-

Crops can be classified in following ways

- a. Artificial classification
- b. Classification based on crop seasons
- c. Classification based on irrigation requirement

### ⊕ a. Agro-cultural classification :-

- (i) field crops :- Such as wheat, rice, maize, barley, oats, gram, pulses etc.
- (ii) Commercial crops :- Such as sugar cane, cotton, tobacco etc.
- (iii) oil seed crops :- Such as mustard, groundnut, Sesame, linseed etc.
- (iv) plantation crops :- Such as tea, coffee, coconut, rubber etc.
- (v) Horticulture crops :- Consist of various fruit crops, various vegetation crops and flower crops.
- (vi) forage crops :- Remove fodder and gram etc.
- (vii) Miscellaneous crops :- Medical crops, Aromatic crops, Sericultural crops, Condiments and spices.

### ⊕ b. Classification based on crop season :-

#### (i) Rabi crops or winter crops :-

They are sown in Autumn (Oct) and are harvested in Spring (March). Such crops are gram, wheat, barley, peas, mustard, tobacco, potato etc.

#### (ii) Kharif crops or Monsoon crops :-

These are sown by the beginning of South west monsoon and are harvested in Autumn. Such crops are rice, maize, spiced millet, pulses, groundnut etc.



(ii) Perennial crops :- These are the crops that require water for irrigation throughout the year.

(iii) Eight monsoon crops :- These are Cotton require irrigation water for 8 months.

(c) Classification based on irrigation requirements :-

(i) dry crops :- Does not require water, only rainwater is sufficient for their growth.

(ii) wet crops :- These are which cannot grow without irrigation.

(iii) Garden crops :- These are require irrigation throughout the year.

(d) Crop Rotations :-

It implies that nature of crop shown in a particular field is changed year after year.

The necessity of rotation arises from the soil lose gradually its fertility. If the same crop is sown every year and the field has to be allowed to gain its fertility. This regain of fertility is obtained by rotation of crops.

(e) Crop Seasons :- There are two main seasons

(i) Kharif season :- known as monsoon crop. Sown in April months to harvested in September. ex. rice, maize

(ii) Rabi crop :- called winter crops. Sown in October and harvested in March. ex. wheat, tobacco



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SUBJECT: Water Resource Engineering - II  
FACULTY NAME: M. Sumathi

Academic Year: -2020-2021  
Year/Sem: - IV/I

Sl. No	REG D.NO	DATE									
		05-11-2020	19-11-2020	26-11-2020	03-12-2020	10-12-2020	17-12-2020	07-01-2021	28-01-2021	11-02-2021	18-02-2021
1	17Q71 A0101	Atten ded	Abse nt	Atte nde d	Atte nde d						
2	17Q71 A0102	Atten ded	Atte nde d	Atte nde d							
3	17Q71 A0103	Atten ded	Atten ded	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Atten ded	Atte nde d	Atte nde d
4	17Q71 A0104	Abse nt	Atten ded	Atten ded	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Abs ent	Atte nde d
5	17Q71 A0105	Atten ded	Atte nde d	Atte nde d							
6	17Q71 A0108	Atten ded	Abse nt	Atte nde d	Atte nde d						
7	17Q71 A0109	Atten ded	Abse nt	Atten ded	Atte nde d	Atte nde d					
8	17Q71 A0110	Atten ded	Atten ded	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Atten ded	Atte nde d	Atte nde d

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9	17Q71 A0111	Atten ded	Atte nde d	Atte nde d							
10	17Q71 A0112	Atten ded	Abs ent	Atte nde d							
11	17Q71 A0114	Atten ded	Atte nde d	Atte nde d							
12	17Q71 A0115	Atten ded	Atten ded	Atten ded	Atten ded	Atten ded	Abse nt	Atten ded	Abse nt	Atte nde d	Atte nde d
13	17Q71 A0117	Abse nt	Atten ded	Atte nde d	Atte nde d						
14	17Q71 A0120	Atten ded	Atte nde d	Atte nde d							
15	17Q71 A0122	Atten ded	Abs ent	Atte nde d							
16	18Q75 A0101	Atten ded	Atte nde d	Atte nde d							
17	18Q75 A0102	Atten ded	Abse nt	Atte nde d	Atte nde d						
18	18Q75 A0103	Atten ded	Abs ent	Atte nde d							



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19	18Q75 A0105	Atten ded	Atte nde d	Atte nde d							
20	18Q75 A0108	Atten ded	Atten ded	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Abse nt	Atte nde d	Atte nde d
21	18Q75 A0109	Atten ded	Abse nt	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Atten ded	Atte nde d	Atte nde d
22	18Q75 A0110	Atten ded	Atte nde d	Abs ent							
23	18Q75 A0111	Atten ded	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Atten ded	Atten ded	Abs ent	Atte nde d
24	18Q75 A0113	Atten ded	Atte nde d	Atte nde d							
25	18Q75 A0114	Abse nt	Atten ded	Atte nde d	Atte nde d						
26	18Q75 A0116	Atten ded	Atte nde d	Atte nde d							
27	18Q75 A0117	Atten ded	Abse nt	Atte nde d	Atte nde d						
28	18Q75 A0118	Atten ded	Atte nde d	Atte nde d							

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29	18Q75 A0119	Atten ded	Atten ded	Atten ded	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Atte nde d	Atte nde d
30	18Q75 A0120	Atten ded	Abse nt	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Atten ded	Abs ent	Atte nde d
31	18Q75 A0121	Abse nt	Atten ded	Atte nde d	Atte nde d						
32	18Q75 A0122	Atten ded	Atte nde d	Atte nde d							
33	17Q71 A0101	Atten ded	Atten ded	Atten ded	Atten ded	Atten ded	Abse nt	Atten ded	Atten ded	Atte nde d	Abs ent

*R. Venkatesh*  
HOD-CIV



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Date: 1/08/2020**

**Circular**

This is information that all the Head of the Department should maintain the Academic Course file and same should be submit at the time of IQAC Audit. In that as per JNTUK indication 4 credit course must have its tutorial session. It should be reflect in the time table. Two class rooms need to be allocated and divide the two batches of each class students.

**Copy to:**

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2. IQAC
3. All HoDs
4. Faculty Circulation

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**TIME TABLE**

SUBJECT: **ELECTRICAL MACHINES -II**

Academic Year:-2020-2021

FACULTY NAME: **B.ANAND SWAROOP**

Year/Sem: - II/II

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	EM&I	*EM-II	CS	<b>LUNCH</b>	DE	PS-I	*S&S	LIBRARY
TUE	CS	S&S	DE		EM-ILAB			
WED	DE	EM-II	EM&I		CS	PS-I	REMEDIAL CLASSES	
THU	PS-I	DE	PE&H V		EDCLAB			
FRI	EM-II		S&S		EM&I	*DE	*CS	CRT
SAT	S&S		PE&H V		*PS-I	EM-II	*EM&I	SPORTS

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	U.V.Venkatalakshmi	Asst.Professor	Electrical Measurements & Instrumentation	EEE
2	B.Ananad swaroop	Asst.Professor	Electrical Machines-II	EEE
3		Asst.Professor	Digital Electronics	ECE
4	B.Madhu sudhana rao	Asst.Professor	Control Systems	EEE
5	A.Arjun Rao	Asso.Professor	Power Systems-I	EEE
6			Signals and Systems	
7	M.Venkatesh	Asst.Professor	Electrical Machines -I Laboratory	EEE
8	K.Avinash kumar	Asst.Professor	Electronic Devices & Circuits Laboratory	ECE
9	R.Vasanthalaxmi	Asst.Professor	Professional Ethics and Human Values	MBA

**TUTORIAL CLASSES**

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SUBJECT: ELECTRICAL MACHINES -II  
FACULTY NAME: B.ANAND SWAROOP

Academic Year:-2020-2021  
Year/Sem: - II/II

S.NO	DATE	TUTORIAL TOPIC	NO. OF STUDENTS PRESENT
1	05-04-2021	Construction & Working Principle of 3-phase induction Motor	50
2	06-04-2021	Production of Rotating Magnetic Field.	49
3	07-04-2021	Rotor EMF, Rotor Frequency, Rotor Current and PF Standstill and during running conditions.	50
4	08-04-2021	Torque-Slip Characteristics & Torque-Speed characteristics	48
5	09-04-2021	No-Load & Blocked Rotor Tests	49
6	12-04-2021	Single phase induction Motors- Starting	50
7	16-04-2021	Double Field revolving Theory	50
8	17-04-2021	EMF Equation of an Alternator ,EMF Method , MMF & ZPF Methods to Determine Voltage Regulation	49

**TUTORIAL ASSIGNMENT**

Avanthi Institute of Engineering and Technology



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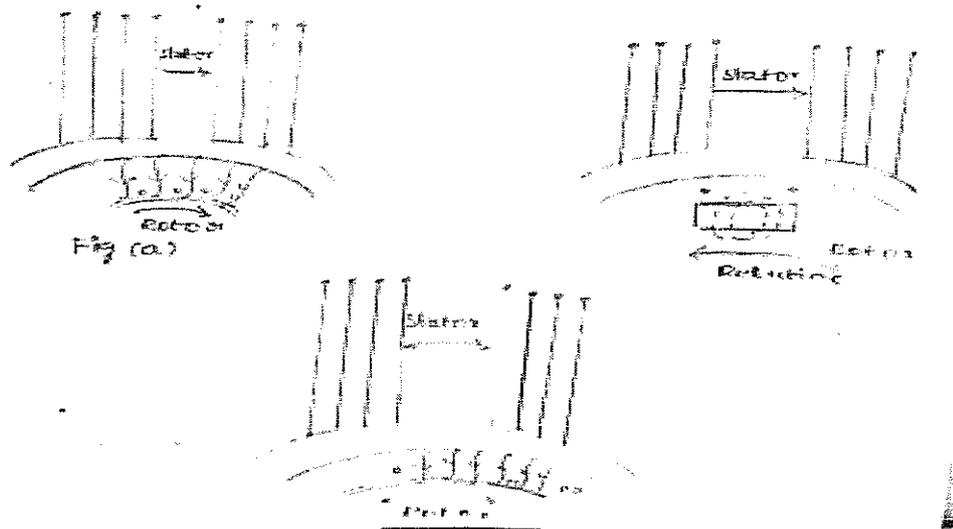
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SUBJECT: ELECTRICAL MACHINES -II  
FACULTY NAME: B.ANAND SWAROOP

Academic Year:-2020-2021  
Year/Sem: - II/II





- When 3  $\phi$  starfed winding are fed by a  $\phi$  supply a magnetic flux of constant magnitude but rotating at synchronous speed is set up
- The flux passes through the air gap cuts the rotor conductors which are stationary
- Due to the relative speed b/w the rotating  $\phi$  and the stationary conductors, an EMF is induced according to Faraday's law of electromagnetic induction
- The frequency of the induced EMF is same as supply frequency.
- Since the rotor conductors form a closed circuit, rotor current is produced whose direction is given by Lenz law i.e. such as to oppose the very cause producing it.
- Hence to produce the relative speed the rotor starts rotating in the same direction as that of the flux and tries to catch with the rotating flux.
- > In Figure (a) the stator field which is assumed to be rotating clockwise direction.
- > The relative motion of the rotor with respect to the stator is anti clock wise
- > By applying the right hand rule, the direction of the induced EMF in the rotor is found to be outwards
- > Hence the direction of the flux due to rotor current alone is shown in Fig(b)
- > Now by applying the left hand rule (or) by effect of combined field it is clear that the rotor conductors experience a force tending to rotate them in clockwise direction as shown



The synchronous speed is given by  $N_s = \frac{120f}{P}$   
 where  $N_s$  is the synchronous speed in rpm,  $f$  is the supply frequency in Hz, and  $P$  is the number of poles.

Slip  $(s)$  is the ratio of the difference between the synchronous speed and the actual rotor speed to the synchronous speed.

$$s = \frac{N_s - N}{N_s} \times 100$$

where  $N_s$  = synchronous speed  
 $N$  = rotor speed.

At no load slip is around 1% and at full load slip is 3%.

When the rotor is stationary the speed is 0 so slip is 1.

If the rotor is driven such that  $N > N_s$  slip becomes negative. The motor torque opposes the external driving torque and the machine acts as a induction generator.

Frequency of Rotor current:  
 At standstill the frequency of the rotor current is same as the supply frequency but when rotor starts rotating (or) revolving, the frequency depends upon the rotor speed. If  $f_r$  is the frequency of rotor current then,

$$f_r = f \cdot s$$

$$N_s = \frac{120f}{P}$$



$$\frac{N_2}{N_1} \frac{d\phi}{dt} = \frac{120f \phi}{P} \quad \frac{V_r}{P}$$

$$S = \frac{V_r}{P} \quad \Rightarrow \boxed{V_r = S \cdot P}$$

Rotor EMF and Rotor current:

When the motor is stationary then induced EMF per phase  $E_2$  in the rotor is

$$\text{From } \frac{E_2}{E_1} = \frac{N_2}{N_1} \Rightarrow E_2 = E_1 \times \frac{N_2}{N_1}$$

When the motor starts rotating the relative speed of the rotor w.r.t. stator flux i.e. slip is decreased hence induced EMF in the rotor is directly proportional to the relative speed i.e. slip speed is given by  $SE_2$ .

Expression:-

Let  $R_2$  = Rotor resistance / phase

$L_2$  = Rotor inductance / phase

$E_2$  = EMF of rotor / phase at standstill

Rotor at standstill:

Induced EMF of Rotor / phase =  $E_2$

Rotor resistance / phase =  $R_2$

Rotor reactance / phase  $X_2 = 2\pi f L_2$

Rotor Impedance / phase  $Z_2 = \sqrt{R_2^2 + X_2^2}$

Rotor current / phase,  $I_2 = \frac{E_2}{Z_2} = \frac{E_2}{\sqrt{R_2^2 + X_2^2}}$

$$\left[ \begin{aligned} V_2 &= 2\pi f L_2 \\ &= 2\pi f_r L_2 \\ &= 2\pi s \cdot f L_2 \\ &= s 2\pi f L_2 \\ &= s X_2 \end{aligned} \right]$$

$$\Rightarrow I_2 = \frac{E_2}{Z_2}$$

$$= \frac{E_2}{\sqrt{R_2^2 + V_2^2}}$$



At any (s):

Induced emf / phase =  $E_2$

Rotor resistance / phase =  $R_2$

Reactance / phase =  $sX_2$

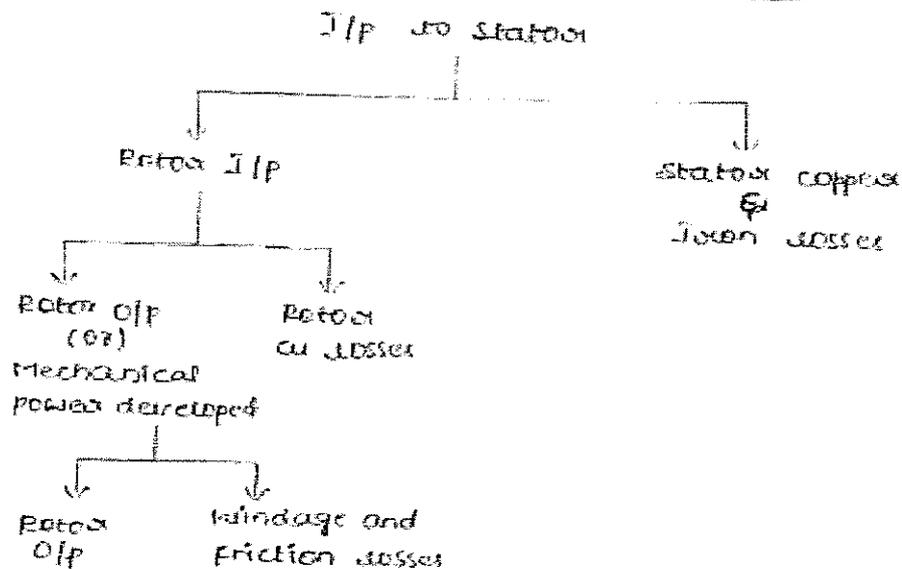
Rotor impedance / phase =  $Z_2 = \sqrt{R_2^2 + (sX_2)^2}$

Rotor current / phase =  $I_2 = \frac{E_2}{Z_2} = \frac{E_2}{\sqrt{R_2^2 + (sX_2)^2}}$

power factor of rotor circuit :

$$\cos\phi_2 = \frac{R_2}{Z_2} = \frac{R_2}{\sqrt{R_2^2 + (sX_2)^2}}$$

Power stages in an Induction Motor :-



Induction Motor Torque :-

If  $T_{sh}$  and  $T_g$  are shaft torque and gross torque developed in Newton/meters and  $N$  is the rotational speed in rpm.

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**TUTORIAL CLASSES ATTENDANCE SHEET**

SUBJECT: ELECTRICAL MACHINES -II

Academic Year:-2020-2021

FACULTY NAME: B.ANAND SWAROOP

Year/Sem: - II/II

SI. NO	REGD. NO	DATE							
		05-04-2021	06-04-2021	07-04-2021	08-04-2021	09-04-2021	12-04-2021	16-04-2021	17-04-2021
1	19Q71A0201	Attended	Attended	Attended	Attended	Attended	Attended		
2	19Q71A0203	Attended							
3	19Q71A0204	Attended							
4	19Q71A0205	Attended	Attended	Attended	Absent	Attended	Attended	Attended	Attended
5	19Q71A0206	Attended							
6	19Q71A0207	Attended	Attended	Attended	Attended	Attended	Absent	Attended	Attended
7	19Q71A0208	Attended	Absent						
8	19Q71A0209	Attended							
9	19Q71A0210	Attended							
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11	19Q71A0212	Attended							
12	19Q71A0213	Attended	Attended	Absent	Attended	Absent	Attended	Attended	Attended
13	19Q71A0214	Attended							
14	19Q71A0215	Attended							
15	20Q75A0201	Attended							
16	20Q75A0202	Attended	Absent	Attended	Attended	Attended	Attended	Attended	Attended
17	20Q75A0203	Attended	Absent	Attended	Attended	Attended	Absent	Attended	Attended

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18	20Q75A 0204	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
19	20Q75A 0205	Attende d	Attende d	Attend ed	Absent	Attende d	Attende d	Attend ed	Atten ded
20	20Q75A 0206	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Absent	Atten ded
21	20Q75A 0207	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
22	20Q75A 0208	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Absent	Atten ded
23	20Q75A 0209	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Absen t
24	20Q75A 0210	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
25	20Q75A 0211	Absent	Attende d	Attend ed	Attend ed	Absent	Attende d	Attend ed	Atten ded
26	20Q75A 0212	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
27	20Q75A 0213	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
28	20Q75A 0214	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
29	20Q75A 0215	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
30	20Q75A 0216	Attende d	Attende d	Attend ed	Absent	Attende d	Attende d	Attend ed	Atten ded
31	20Q75A 0217	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
32	20Q75A 0218	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
33	20Q75A 0219	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
34	20Q75A 0220	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
35	20Q75A 0221	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
36	20Q75A 0222	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Absen t
37	20Q75A 0223	Attende d	Attende d	Absent	Attend ed	Attende d	Attende d	Attend ed	Atten ded
38	20Q75A 0224	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
39	20Q75A 0225	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
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	0226	d	d	ed	ed	d	d	ed	ded
41	20Q75A 0227	Attende d	Attende d	Attend ed	Absent	Attende d	Attende d	Attend ed	Atten ded
42	20Q75A 0228	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
43	20Q75A 0229	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
44	20Q75A 0230	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
45	20Q75A 0231	Attende d	Attende d	Attend ed	Attend ed	Absent	Attende d	Attend ed	Atten ded
46	20Q75A 0232	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
47	20Q75A 0233	Absent	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
48	20Q75A 0234	Attende d	Absent	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
49	20Q75A 0235	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
50	20Q75A 0236	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
51	20Q75A 0237	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded
52	20Q75A 0238	Attende d	Attende d	Attend ed	Attend ed	Attende d	Attende d	Attend ed	Atten ded

  
**HOD-EEE**  
Head of The Department  
Department of Electrical and Electronics Engineering  
Avanthi Institute of Engg. & Tech.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram(Dist)-531163



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**DEPARTMENT OF MECHANICAL ENGINEERING**

**Date:1/08/2020**

**Circular**

This is information that all the Head of the Department should maintain the Academic Course file and same should be submit at the time of IQAC Audit. In that as per JNTUK indication 4 credit course must have its tutorial session. It should be reflect in the time table. Two class rooms need to be allocate and divide the two batches of each class students.

**PRINCIPAL**  
**AVANTHI INSTITUTE OF ENGG & TECH**  
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**Bhogapuram (Mandal),**  
**Vizianagaram (Dist.)-531162**

**Copy to:**

1. Principal Office
2. IQAC
3. All HoDs
4. Faculty Circulation

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**ACADEMIC YEAR:-2020-2021**

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**YEAR/SEM: - IV/I-A**

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	MECHAT.	CAD/CAM	FEM	LUNCH	TUTORIAL CLASSES		PPE	ADM
TUE	CAD/CAM	MECHAT.	FEM		ADM	CAD/CAM/MECHATRONICS LAB		
WED	FEM	PPE	MECHAT.		CAD/CAM	ADM	DFM	LIBRARY
THU	PPE	FEM	DFM		CRT		DFM	SPORTS
FRI	ADM	FEM	PPE		CAD/CAM	DASSUALT		ADM
SAT	DFM	CAD/CAM	PPE		ADM	CAD/CAM/MECHATRONICS LAB		

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	B.Sunitha	Assistance Professor	Mechatronics	E.C.E
2	M.Lakshmi Sramika	Associate Professor	Cad/cam	Mechanical
3	Vamsi Mudedla Madhu	Associate Professor	Fem	Mechanical
4	J Jagadish	Associate Professor	Ppe	Mechanical
5	Vommi Pradeep Kumar	Associate Professor	Adm	Mechanical
6	Dr.Avinash Ben	Professor	Dfm	Mechanical
7	Sunil.Jena	Assistance Professor	Cad/cam lab	Mechanical
8	Raghu Maharana	Assistance Professor	Mechatronics Lab	Mechanical
9	Raghu Maharana	Assistance Professor	Dassualt	Mechanical
10	Sunil.Jena	Assistance Professor	Class Incharge	Mechanical

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ACADEMIC YEAR:-2020-2021

YEAR/SEM: - IV/I-B

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CAD/CAM	FEM	MECHAT.	LUNCH	ADM	CAD/CAM/MECHATRONICS LAB		
TUE	MECHAT.	CAD/CAM	FEM		TUTORIAL CLASSES	PPE	ADM	
WED	FEM	MECHAT.	PPE		CAD/CAM	ADM	DFM	LIBRARY
THU	DFM	FEM	CAD/CAM		ADM	CAD/CAM/MECHATRONICS LAB		
FRI	ADM	MECHATRONICS	PPE		CAD/CAM	DAASUALT	ADM	
SAT	ADM	PPE	DFM			CRT	DFM	SPORTS

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	G.Buela Divya	Assistance Professor	Mechatronics	E.C.E
2	P Rama Krishna	Assistance Professor	Cad/cam	Mechanical
3	K.Jaswanth	Assistance Professor	Fem	Mechanical
4	K.Mohan Pradeep	Assistance Professor	Ppe	Mechanical
5	L.Bhavani Shankar	Assistance Professor	Adm	Mechanical
6	N Venkatesh	Assistance Professor	Dfm	Mechanical
7	Sarantej Vulli	Assistance Professor	Cad/cam lab	Mechanical
8	N Venkatesh	Assistance Professor	Mechatronics Lab	Mechanical
9	Sarantej Vulli	Assistance Professor	Dassualt	Mechanical
10	K.Jaswanth	Assistance Professor	Class Incharge	Mechanical

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**SECTION –A, B & C**

SUBJECT: FINITE ELEMENT METHOD

Academic Year:-2020-2021

FACULTY NAME: M.LAKSHMI SRAMIKA

Year/Sem: - IV/I

S.NO	DATE	TUTORIAL TOPIC	NO. OF STUDENTS PRESENT
1	18/10/2020	Derivation of strain - displacement relations, stress- strain relations	85
2	20/10/2020	Discretization procedures, Node numbering, mesh generation	87
3	21/10/2020	Concept of potential energy , Variation and weighted residual methods.	92
4	25/10/2020	Local and global coordinates , Boundary conditions	87
5	26/10/2020	shape functions of 1-D element and problem, Assembly of global stiffness matrix and load vector	85
6	27/10/2020	Treatment of boundary conditions, stress, strain, and support reaction calculations for tress.	99
7	28/10/2020	Derivation of load vector for concentrated and UDL	94
8	1/11/2020	Formulation of axisymmetric problems	82
9	2/11/2020	Lumped mass matrices , Evaluation of Eigen vectors	86
10	3/11/2020	1-D & 2-D analysis of a fin	92

**DEPARTMENT OF MECHANICAL ENGINEERING**

Avanthi Institute of Engineering and Technology



**TUTORIAL ASSIGNMENT**

**SECTION -A, B & C**

SUBJECT: FINITE ELEMENT METHOD

Academic Year:-2020-2021

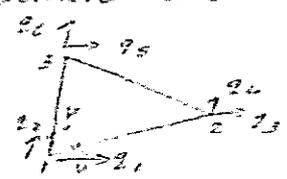
FACULTY NAME: M.LAKSHMI SRAMIKA

Year/Sem: - IV/I

Strain - Displacement matrix for CST element:

We know that the strain - displacement relations for a two dimensional element are given by.

$$\underline{\epsilon} = \begin{Bmatrix} \epsilon_x \\ \epsilon_y \\ \gamma_{xy} \end{Bmatrix} = \begin{Bmatrix} \frac{\partial u}{\partial x} \\ \frac{\partial v}{\partial y} \\ \frac{\partial u}{\partial y} + \frac{\partial v}{\partial x} \end{Bmatrix}$$



Now the displacements are expressed as -

$$u = N_1 u_1 + N_2 u_2 + N_3 u_3$$

$$v = N_1 v_1 + N_2 v_2 + N_3 v_3$$

where  $u$  = deformation in  $x$  - direction  
 $v$  = deformation in  $y$  - direction

$$u = \xi z_1 + \eta z_2 + (1 - \xi - \eta) z_3$$

$$= \xi z_1 + \eta z_2 + z_3 - \xi z_3 - \eta z_3$$

$$= \xi(z_1 - z_3) + \eta(z_2 - z_3) + z_3$$

$$= \xi z_{13} + \eta z_{23} + z_3$$

Similarly

$$v = \xi(z_2 - z_6) + \eta(z_4 - z_6) + z_6$$

$$= \xi z_{26} + \eta z_{46} + z_6$$

isoparametric representation

$$x = N_1 x_1 + N_2 x_2 + N_3 x_3$$

$$y = N_1 y_1 + N_2 y_2 + N_3 y_3$$

$$x = \xi(x_1 - x_3) + \eta(x_2 - x_3) + x_3$$

$$= \xi x_{13} + \eta x_{23} + x_3$$

$$y = \xi y_{13} + \eta y_{23} + y_3$$



Let  $u = u(x, y)$  ,  $v = v(x, y)$

$u = u\{x(\xi, \eta), y(\xi, \eta)\}$  ;  $v = v\{x(\xi, \eta), y(\xi, \eta)\}$

By using chain rule.

$$\frac{\partial u}{\partial \xi} = \frac{\partial u}{\partial x} \cdot \frac{\partial x}{\partial \xi} + \frac{\partial u}{\partial y} \cdot \frac{\partial y}{\partial \xi}$$

$$\frac{\partial u}{\partial \eta} = \frac{\partial u}{\partial x} \cdot \frac{\partial x}{\partial \eta} + \frac{\partial u}{\partial y} \cdot \frac{\partial y}{\partial \eta}$$

$$\begin{Bmatrix} \frac{\partial u}{\partial \xi} \\ \frac{\partial u}{\partial \eta} \end{Bmatrix} = \begin{Bmatrix} \frac{\partial x}{\partial \xi} & \frac{\partial y}{\partial \xi} \\ \frac{\partial x}{\partial \eta} & \frac{\partial y}{\partial \eta} \end{Bmatrix} \begin{Bmatrix} \frac{\partial u}{\partial x} \\ \frac{\partial u}{\partial y} \end{Bmatrix}$$

$$= [J] \begin{Bmatrix} \frac{\partial u}{\partial x} \\ \frac{\partial u}{\partial y} \end{Bmatrix}$$

where  $[J] =$  Jacobian matrix.

$$= \begin{Bmatrix} \frac{\partial x}{\partial \xi} & \frac{\partial y}{\partial \xi} \\ \frac{\partial x}{\partial \eta} & \frac{\partial y}{\partial \eta} \end{Bmatrix} = \begin{Bmatrix} x_{13} & y_{13} \\ x_{23} & y_{23} \end{Bmatrix}$$

$$\begin{Bmatrix} \frac{\partial u}{\partial \xi} \\ \frac{\partial u}{\partial \eta} \end{Bmatrix} = \begin{Bmatrix} x_{13} & y_{13} \\ x_{23} & y_{23} \end{Bmatrix} \begin{Bmatrix} \frac{\partial u}{\partial x} \\ \frac{\partial u}{\partial y} \end{Bmatrix}$$

$$\begin{Bmatrix} \frac{\partial u}{\partial \xi} \\ \frac{\partial u}{\partial \eta} \end{Bmatrix} = [J^{-1}] \begin{Bmatrix} \frac{\partial u}{\partial x} \\ \frac{\partial u}{\partial y} \end{Bmatrix}$$

$$J^{-1} = \frac{adj [J]}{|J|}$$

$$J = \begin{bmatrix} x_{13} & y_{13} \\ x_{23} & y_{23} \end{bmatrix}$$

$$J^{-1} = \begin{bmatrix} y_{23} & -y_{13} \\ -x_{23} & x_{13} \end{bmatrix}$$

$$J^{-1} = \begin{bmatrix} y_{23} & -y_{13} \\ -x_{23} & x_{13} \end{bmatrix}$$

$$|y_{13} y_{23} - x_{23} y_{13}|$$



$$F_2 = \frac{1}{J} [J] \Rightarrow [K] = 2 P \epsilon$$

$$\begin{aligned} \begin{Bmatrix} \frac{2x}{3h} \\ \frac{2x}{3h} \end{Bmatrix} &= \frac{1}{J} \begin{bmatrix} y_{23} & -y_{13} \\ -x_{23} & x_{13} \end{bmatrix} \begin{Bmatrix} 2x_{15} \\ 2x_{35} \end{Bmatrix} \\ &= \frac{1}{J} \begin{bmatrix} y_{23} & -y_{13} \\ -x_{23} & x_{13} \end{bmatrix} \begin{Bmatrix} 2x_{15} \\ 2x_{35} \end{Bmatrix} \\ &= \frac{1}{J} \begin{Bmatrix} y_{23} 2x_{15} - y_{13} 2x_{35} \\ -x_{23} 2x_{15} + x_{13} 2x_{35} \end{Bmatrix} \end{aligned}$$

$$\begin{aligned} \begin{Bmatrix} \frac{2x}{3h} \\ \frac{2x}{3h} \end{Bmatrix} &= \frac{1}{J} \begin{bmatrix} y_{23} & -y_{13} \\ -x_{23} & x_{13} \end{bmatrix} \begin{Bmatrix} 2x_{25} \\ 2x_{45} \end{Bmatrix} \\ &= \frac{1}{J} \begin{bmatrix} y_{23} & -y_{13} \\ -x_{23} & x_{13} \end{bmatrix} \begin{Bmatrix} 2x_{25} \\ 2x_{45} \end{Bmatrix} \\ &= \frac{1}{J} \begin{Bmatrix} y_{23} 2x_{25} - y_{13} 2x_{45} \\ -x_{23} 2x_{25} + x_{13} 2x_{45} \end{Bmatrix} \\ \epsilon &= \begin{Bmatrix} \epsilon_x \\ \epsilon_y \\ \epsilon_z \end{Bmatrix} = \begin{Bmatrix} \frac{2x_{15}}{3h} \\ \frac{2x_{35}}{3h} \\ \frac{2x_{25}}{3h} + \frac{2x_{45}}{3h} \end{Bmatrix} \end{aligned}$$

$$\epsilon = \frac{1}{J} \begin{Bmatrix} y_{23} 2x_{15} - y_{13} 2x_{35} \\ -x_{23} 2x_{15} + x_{13} 2x_{35} \\ -x_{23} 2x_{25} + x_{13} 2x_{45} + y_{23} 2x_{25} - y_{13} 2x_{45} \end{Bmatrix}$$

$$= \frac{1}{J} \begin{Bmatrix} y_{23} (2x_1 - 2x_2) - y_{13} (2x_3 - 2x_4) \\ -x_{23} (2x_1 - 2x_2) + x_{13} (2x_3 - 2x_4) \\ -x_{23} (2x_1 - 2x_2) + x_{13} (2x_3 - 2x_4) + y_{23} (2x_2 - 2x_3) - y_{13} (2x_4 - 2x_5) \end{Bmatrix}$$

$$= \frac{1}{J} \begin{bmatrix} y_{23} & 0 & -y_{13} & 0 & y_{23} & 0 \\ 0 & -x_{23} & 0 & x_{13} & 0 & 0 \\ -x_{23} & y_{23} & x_{13} & -y_{13} & -x_{23} & y_{13} \end{bmatrix} \begin{Bmatrix} 2x_1 \\ 2x_2 \\ 2x_3 \\ 2x_4 \\ 2x_5 \end{Bmatrix}$$

$$\epsilon = \frac{1}{J} \begin{bmatrix} y_{23} & 0 & -y_{13} & 0 & y_{23} & 0 \\ 0 & -x_{23} & 0 & x_{13} & 0 & 0 \\ x_{23} & y_{23} & x_{13} & -y_{13} & -x_{23} & y_{13} \end{bmatrix} \begin{Bmatrix} 2x_1 \\ 2x_2 \\ 2x_3 \\ 2x_4 \\ 2x_5 \end{Bmatrix}$$

$\epsilon = B \delta$



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**TUTORIAL CLASSES ATTENDANCE SHEET**

SUBJECT: FINITE ELEMENT METHOD

Academic Year:-2020-2021

FACULTY NAME: M.LAKSHMI SRAMIKA

Year/Sem: - IV/I-A

SI. NO	REGD. NO	DATE							
		18/10/2020	20/10/2020	21/10/2020	25/10/2020	26/10/2020	27/10/2020	1/11/2020	3/11/2020
1	16Q71A0332	Attended	Attended	Absent	Attended	Attended	Absent	Attended	Attended
2	17Q71A0301	Attended	Absent	Attended	Attended	Absent	Attended	Attended	Attended
3	17Q71A0302	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
4	17Q71A0303	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
5	17Q71A0304	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
6	17Q71A0305	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Absent
7	17Q71A0308	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
8	17Q71A0309	Absent	Absent	Attended	Absent	Attended	Absent	Attended	Attended
9	17Q71A0311	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
10	17Q71A0313	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
11	17Q71A0314	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
12	17Q71A0315	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Absent
13	17Q71A0316	Attended	Absent	Attended	Attended	Attended	Attended	Attended	Attended
14	17Q71A0317	Attended	Attended	Attended	Absent	Attended	Attended	Attended	Attended
15	17Q71A0318	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
16	17Q71A0319	Attended	Attended	Attended	Attended	Attended	Absent	Attended	Absent
17	17Q71A0320	Absent	Attended	Attended	Absent	Attended	Attended	Attended	Attended
18	18Q75A	Attended	Attended	Absent	Attended	Attended	Attended	Attended	Attended

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	0301	ed	ed		ed	ed	ed	ed	ed
19	18Q75A 0302	Absent	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed
20	18Q75A 0304	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
21	18Q75A 0305	Absent	Attend ed	Attend ed	Absent	Attend ed	Absent	Attend ed	Attend ed
22	18Q75A 0306	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absen t
23	18Q75A 0307	Attend ed							
24	18Q75A 0308	Attend ed							
25	18Q75A 0309	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
26	18Q75A 0310	Attend ed							
27	18Q75A 0311	Attend ed	Absent	Attend ed	Absent	Absent	Attend ed	Attend ed	Absen t
28	18Q75A 0312	Attend ed							
29	18Q75A 0313	Attend ed							
30	18Q75A 0314	Attend ed							
31	18Q75A 0315	Absent	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Absen t	Attend ed
32	18Q75A 0316	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
33	18Q75A 0317	Absent	Attend ed	Absent	Attend ed	Attend ed	Absent	Absen t	Attend ed
34	18Q75A 0318	Attend ed							
35	18Q75A 0319	Attend ed	Absen t						
36	18Q75A 0320	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
37	18Q75A 0321	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed
38	18Q75A 0322	Attend ed							
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40	18Q75A 0328	Absent	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed



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41	18Q75A 0329	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
42	18Q75A 0330	Absent	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed
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49	18Q75A 0337	Attend ed							
50	18Q75A 0338	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absen t
51	18Q75A 0340	Attend ed							



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SUBJECT: FINITE ELEMENT METHOD

Academic Year:-2020-2021

FACULTY NAME: M.LAKSHMI SRAMIKA

Year/Sem: - IV/I-B

SI. NO	REGD. NO	DATE							
		18/10/2020	20/10/2020	21/10/2020	25/10/2020	26/10/2020	27/10/2020	1/11/2020	3/11/2020
1	17Q71A0321	Attended	Attended	Absent	Attended	Attended	Attended	Attended	Absent
2	17Q71A0322	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
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7	17Q71A0329	Attended	Attended	Absent	Attended	Attended	Attended	Attended	Attended
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17	18Q75A0342	Attended	Attended	Attended	Attended	Attended	Attended	Attended	Attended
18	18Q75A0343	Attended	Attended	Attended	Absent	Attended	Attended	Attended	Attended



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41	18Q75A	Attend	Attend	Absent	Attend	Attend	Attend	Attend	Absen



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43	18Q75A 0370	Attend ed							
44	18Q75A 0371	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
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53	18Q75A 0380	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absen t



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**IV B.TECH I SEMESTER**

SUBJECT: FINITE ELEMENT METHOD

Academic Year:-2020-2021

FACULTY NAME: M.LAKSHMI SRAMIKA

Year/Sem: - IV/I-C

SI. NO	REGD. NO	DATE							
		18/10/2020	20/10/2020	21/10/2020	25/10/2020	26/10/2020	27/10/2020	1/11/2020	3/11/2020
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17	17Q71A	Attend ed	Attend ed	Attend ed					

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37	18Q75A 03A0	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absen t
38	18Q75A 03A1	Attend ed							
39	18Q75A 03A2	Attend ed							



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45	18Q75A 03A8	Attend ed							
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53	18Q75A 03B8	Attend ed							
54	18Q75A 03B9	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absen t
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57	18Q75A 03C2	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
58	18Q75A 03C3	Attend ed							

  
**HOD-MECH**  
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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Date:01/08/2020**

**Circular**

This is information that all the Head of the Department should maintain the Academic Course file and same should be submit at the time of IQAC Audit. In that as per JNTUK indication 4 credit course must have its tutorial session. It should be reflect in the time table. Two class rooms need to be allocate and divide the two batches of each class students.

PRINCIPAL  
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Principal

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**TIME TABLE**

**SUBJECT: DIGITAL IMAGE PROCESSING**

**Academic Year:-2020-2021**

**FACULTY NAME: Ms. G.BUELA DIVYA**

**Year/Sem: - IV/I**

Class Incharge: Mr B.sudha								
DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:40	2:40-3:30	3:30-4:20
MON	RS	OC	CRT	L U N C H	ES	Tutorial Classes		
TUE	DIP	ESS	CN		RS	ES	OC	Sports
WED	CN	DIP	OC		ES	MW&OC/DSP Lab		
THU	OC	ESS	RS		DIP	CRT	CN	Library
FRI	ESS	ES	RS		CRT	DSP/MW&OC Lab		
SAT	ES	CRT	OC		DIP	RS	OC	ESS

S.NO.	NAME OF THE FACULTY	DESIGNATION	SUBJECT NAME	DEPARTMENT
1	Mr G.Venkata Santosh	Asst Prof	RS	ECE
2	Ms G.Buela Divya	Asst Prof	DIP	ECE
3	Mr Ch.Sri Ramulu	Asst Prof	CN	ECE
4	Mrs G.Roja	Asst Prof	OC	ECE
5	Mr B.Sudha	Asst Prof	ESS	ECE
6	Mr M.Vinay Kumar	Asst Prof	ES	ECE
7	Mrs G.Roja/ Mrs S.Santoshi Bhavani	Asst Prof	MW&OC Lab	ECE
8	Mrs Ch.Meena Madhuri/ Dr V.Adi NArayana	Asst Prof	DSP Lab	ECE



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**SUBJECT: DIGITAL IMAGE PROCESSING**

**Academic Year:-2020-2021**

**FACULTY NAME: Ms. G.BUELA DIVYA**

**Year/Sem: - IV/I**

S.NO	DATE	TUTORIAL TOPIC	NO. OF STUDENTS PRESENT
1	18/10/2020	Fundamental steps in digital image processing	48
2	20/10/2020	Mathematical tools used in digital image processing.	46
3	21/10/2020	Discrete Fourier transform (DFT) of one variable and Extension to functions of two variables	47
4	25/10/2020	basic intensity transformation functions and histogram processing,	48
5	26/10/2020	Image smoothing and Image Sharpening using frequency domain filters	45
6	27/10/2020	Noise models and restoration in the presence of noise only-Spatial Filtering	46
7	28/10/2020	Image compression and Wavelets and Multi resolution Processing	48
8	1/11/2020	Image segmentation and Morphological Image Processing:	46
9	2/11/2020	pseudo color image processing	47
10	3/11/2020	Colour image smoothing and sharpening	46



TUTORIAL ASSIGNMENT

SUBJECT: DIGITAL IMAGE PROCESSING

Academic Year:-2020-2021

FACULTY NAME: MS G.BUELA DIVYA

Year/Sem: - IV/I

UNIT I - Chapter 1

66. One picture is worth more than ten thousand words.

Digital image processing methods stem from two principal application areas:

- (i) Improvement of pictorial information for human interpretation
- (ii) Processing of image data for storage, transmission and representation for automatic machine perception.

What is Digital Image Processing?

Image is defined as a 2-dimensional function  $f(x,y)$ , where  $x$  and  $y$  are spatial (plane) co-ordinates and its amplitude of  $f$  at any pair of co-ordinates  $(x,y)$  is called its intensity or gray-level of the image at that point.

Digital image  $\rightarrow$  when  $x$  and  $y$  intensity values of  $f$  are all finite & discrete quantities, we call the image a digital image. OR

Digital image is composed of a finite number of elements, each of which has a particular location and value. These elements are called picture elements, image elements, pixels and points.

$\rightarrow$  The field of digital image processing refers to processing digital images by means of a digital computer.

Image processing  
 $\downarrow$   
Image analysis & image understanding  
 $\downarrow$   
Computer vision



use of wavelength and 'image' shown in PPTs] [5]

### 5. Imaging in the Microwave Band

The dominant application of imaging in the microwave band is radar.

- The unique feature of imaging radar is its ability to collect data over virtually any region at any time, regardless of weather or ambient lighting conditions.
- Some radar waves can penetrate clouds, and under certain conditions can also see through vegetation, ice and dry sand.
- Instead of a camera lens, a radar uses an antenna and digital computer processing to record its images.

[Image shown in PPTs]

### 6. Imaging in the Radio Band

- 1) In medicine, radio waves are used in magnetic resonance imaging (MRI)

[Image shown in PPTs]

### 7. Other Imaging Modalities shown in PPTs



Fundamental Steps in Digital Image Processing

- (i) Image acquisition - this stage involves preprocessing such as scaling.
- (ii) Image enhancement - is the process of manipulating an image so that the result is more suitable than the original for a specific application. Specific words is important here because for example a method that is quite useful for enhancing X-ray images may not be the best approach for enhancing satellite images taken in infrared band of the spectrum.
- (iii) Image restoration - is an area that deals with improving the appearance of an image. Restoration techniques tend to be based on mathematical or probabilistic models of image degradation.  
→ Enhancement is often based on human subjective preferences regarding what constitutes a good enhancement result.
- (iv) Color image processing - is an area that has gained in importance because of its significant increase in the use of digital images over the Internet.
- (v) Wavelet - is the foundation for representing images to various degrees of resolution. This in turn we are using it for image data compression and for pyramidal representation.



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**SUBJECT: DIGITAL IMAGE PROCESSING**

**Academic Year:-2020-2021**

**FACULTY NAME: MS G.BUELA DIVYA**

**Year/Sem: - IV/I**

SL.N O	REGD.N O	DATE							
		18/10/ 20	20/10/ 20	21/10/ 20	25/10/ 20	26/10/ 20	27/10/ 20	28/10/ 20	1/11/2 0
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13	17Q71A0 417	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed
14	17Q71A0 419	Attend ed							
15	17Q71A0 420	Attend ed							
16	17Q71A0 422	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
17	17Q71A0 423	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
18	17Q71A0 424	Attend ed							

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19	17Q71A0 425	Attend ed	Absent						
20	17Q71A0 427	Attend ed							
21	17Q71A0 428	Attend ed							
22	17Q71A0 429	Attend ed							
23	17Q71A0 430	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed
24	17Q71A0 431	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
25	17Q71A0 432	Attend ed							
26	17Q71A0 433	Attend ed							
27	17Q71A0 434	Attend ed							
28	17Q71A0 435	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
29	17Q71A0 436	Attend ed							
30	17Q71A0 437	Attend ed							
31	17Q71A0 438	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed
32	17Q71A0 439	Attend ed							
33	17Q71A0 440	Attend ed							
34	17Q71A0 441	Attend ed							
35	17Q71A0 442	Attend ed							
36	17Q71A0 443	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed
37	17Q71A0 445	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
38	17Q71A0 446	Attend ed							
39	17Q71A0 447	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
40	17Q71A0 449	Attend ed							
41	17Q71A0	Attend							



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	450	ed							
42	17Q71A0 451	Attend ed							
43	17Q71A0 452	Absent	Attend ed						
44	17Q71A0 453	Attend ed							
45	17Q71A0 454	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
46	17Q71A0 455	Attend ed	Absent						
47	17Q71A0 457	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed
48	17Q71A0 459	Attend ed	Absent						
49	17Q71A0 460	Attend ed							
50	17Q71A0 461	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed

Head of the Department  
Electronics & Communication Engineering  
AVANTHI INSTITUTE OF ENGINEERING & TECH  
HOD-ECE  
Cherukupally (Village), Bhogapuram (M)  
VIZIANAGARAM (DIST)



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Date:1/08/2020**

**Circular**

This is information that all the Head of the Department should maintain the Academic Course file and same should be submit at the time of IQAC Audit. In that as per JNTUK indication 4 credit course must have its tutorial session. It should be reflect in the time table. Two class rooms need to be allocate and divide the two batches of each class students.

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3. All HoDs
4. Faculty Circulation

  
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Bhogapuram (M),  
Vizianagaram (Dist.)-531162



**TIME TABLE**

Class: IV B.Tech I Sem

Academic Year:-2020-2021

Section: A

Date:02-11-2020

DAY / TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CNS	WT	MEFA	<b>LUNCH</b>	SADP	BDA	CC	WT
TUE	BDA	CNS	WT		MEFA	SADP LAB		
WED	SADP	MEFA	CNS		CNS	SADP	CRT	BDA
THU	CC	SADP	WT		CC	WT LAB		
FRI	BDA	CNS	MEFA		BDA	CNS	MEFA	WT
SAT	CC	MEFA	SADP		WT	SADP	CC	BDA

S. No.	Name of the faculty	Designation	Subject Name	Department
1	T.V. Prasad	Assistant Professor	Cryptography and Network Security	CSE
2	Pathivada Monika	Associate Professor	Web Technologies	CSE
3	Dr. Gandhi Satyanarayana	Professor	Software Architecture and Design Patterns	CSE
4	Gangiraju Kanaka Maha Lakshmi	Assistant Professor	Big Data Analytics	CSE
5	Akula Swathi	Assistant Professor	Cloud Computing	CSE
6	T.Srinivas	Associate Professor	Mangerial Economics and Financial Accountancy	MBA
7	Dr. Gandhi Satyanarayana	Assistant Professor	Software Architecture and Design Patterns LAB	CSE
8	Pathivada Monika	Assistant Professor	Web Technologies LAB	CSE
9	M Roop Sundar	Assistant Professor	Campus Recruitment Training	Training & Placement
10	Akula Swathi	Assistant Professor	Class In charge	CSE



**TIME TABLE**

Class: IV B.Tech I Sem

Academic Year:-2020-2021

Section: B

Date:02-11-2020

DAY/TIME	9:30-10:30	10:30-11:20	11:20-12:10	12:10-1:00	1:00-1:50	1:50-2:20	2:20-3:30	3:30-4:20
MON	CNS	BDA	WT	<b>LUNCH</b>	SADP	MEFA	BDA	LIBRARY
TUE	MEFA	CNS	WT		BDA	SADP LAB		
WED	CC	SADP	BDA		CNS	WT	CRT	SPORTS
THU	CNS	MEFA	SADP		MEFA	WT LAB		
FRI	CC	SADP	CNS		CC	BDA	SADP	CC
SAT	BDA	CC	CC		WT	CNS	MEFA	T

S. No.	Name of the faculty	Designation	Subject Name	Department
1	N.V.S.Aravind	Assistant Professor	Cryptography and Network Security	CSE
2	Hanumanthu Devaraju	Assistant Professor	Web Technologies	CSE
3	P Satyanarayana	Assistant Professor	Software Architecture and Design Patterns	CSE
4	G.Trinadha Rao	Assistant Professor	Big Data Analytics	CSE
5	Seerapu Kesava Rao	Associate Professor	Cloud Computing	CSE
6	T.Srinivas	Associate Professor	Mangerial Economics and Financial Accountancy	MBA
7	Roop Sundar	Assistant Professor	Campus Recruitment Training	Training & Placement
8	P Satyanarayana	Assistant Professor	Software Architecture and Design Patterns LAB	CSE
9	Hanumanthu Devaraju	Assistant Professor	Web Technologies LAB	CSE
10	Seerapu Kesava Rao	Associate Professor	Class In charge	CSE



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**TUTORIAL CLASSES**

**SECTION -A, B & C**

**SUBJECT: WEB TECHNOLOGIES**

Academic Year:-2020-2021

**FACULTY NAME: Hanumanthu Devaraju**

Year/Sem: - IV/I

<b>S.NO</b>	<b>DATE</b>	<b>TUTORIAL TOPIC</b>	<b>NO. OF STUDENTS PRESENT</b>
1	18/10/2020	Cascading style sheets and its types	89
2	20/10/2020	Introduction to java script, declaring variables, functions	92
3	21/10/2020	XML Schemas, presenting XML	98
4	25/10/2020	Using XML Processors: DOM and SAX	98
5	26/10/2020	PHP: Declaring Variables, Data types, Operators, Control Structures and Functions	91
6	27/10/2020	Introduction to Servlets ,Life Cycle of Servlet, JSDK, The Servlet API	89
7	28/10/2020	HTTP Package, Handling HTTP Request and Response	95
8	1/11/2020	Database Programming using JDBC, JDBC Drivers	96
9	2/11/2020	The Anatomy of a JSP Page, JSP Processing, JSP Application Design	98
10	3/11/2020	Java Beans, Introduction to Beans, Deploying Java Beans in a JSP Page	98



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**TUTORIAL CLASSES ATTENDANCE SHEET**

SUBJECT: WEB TECHNOLOGIES

Academic Year:-2020-2021

FACULTY NAME: Hanumanthu Devaraju

Year/Sem: - IV/I-A

SI.N O	REGD.NO	DATE							
		18/11/20	11/12/20	15/12/20	1/1/21	4/1/21	5/1/21	6/1/21	8/1/21
1	17Q71A0501	Attend ed	Absent	Absent	Absent	Attend ed	Absent	Attend ed	Attend ed
2	17Q71A0503	Attend ed	Absent	Absent	Attend ed				
3	17Q71A0504	Attend ed							
4	17Q71A0505	Attend ed							
5	17Q71A0506	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
6	17Q71A0511	Attend ed	Attend ed	Attend ed	Absent	Absent	Attend ed	Attend ed	Absent
7	17Q71A0512	Attend ed	Attend ed	Absent	Absent	Attend ed	Absent	Absent	Attend ed
8	17Q71A0515	Attend ed							
9	17Q71A0516	Attend ed							
10	17Q71A0518	Absent	Attend ed	Absent					
11	17Q71A0519	Attend ed	Absent	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed
12	17Q71A0520	Attend ed	Attend ed	Absent	Attend ed	Absent	Attend ed	Attend ed	Attend ed
13	17Q71A0521	Attend ed	Absent	Attend ed	Attend ed				
14	17Q71A0522	Attend ed							
15	17Q71A0523	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Absent	Absent
16	17Q71A0524	Absent	Attend ed	Absent	Absent	Absent	Attend ed	Attend ed	Attend ed
17	17Q71A0526	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Absent	Attend ed	Attend ed
18	17Q71A0527	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
19	17Q71A0529	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Absent
20	17Q71A0530	Absent	Absent	Absent	Absent	Attend ed	Attend ed	Absent	Attend ed
21	17Q71A05	Attend	Attend	Absent	Attend	Attend	Absent	Attend	Attend

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	31	ed	ed		ed	ed		ed	ed
22	17Q71A05 32	Attend ed							
23	17Q71A05 33	Attend ed	Absent						
24	17Q71A05 34	Absent	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed
25	17Q71A05 35	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Absent	Attend ed	Attend ed
26	17Q71A05 36	Attend ed							
27	17Q71A05 37	Attend ed							
28	17Q71A05 38	Absent	Attend ed						
29	17Q71A05 39	Attend ed	Absent	Absent	Attend ed	Attend ed	Absent	Attend ed	Attend ed
30	17Q71A05 40	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
31	17Q71A05 41	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Absent
32	17Q71A05 43	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed
33	17Q71A05 45	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed
34	17Q71A05 47	Attend ed							
35	17Q71A05 48	Attend ed							
36	17Q71A05 49	Absent	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed
37	17Q71A05 50	Attend ed							
38	17991A05 18	Attend ed	Absent						
39	17Q71A05 51	Attend ed							
40	17Q71A05 53	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed
41	17Q71A05 54	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
42	17Q71A05 55	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed



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**TUTORIAL CLASSES ATTENDANCE SHEET**

SUBJECT: **WEB TECHNOLOGIES**

Academic Year:-2020-2021

FACULTY NAME: Hanumanthu Devaraju

Year/Sem: - IV/I-B

S.L.N O	REGD.N O	DATE							
		18/11/ 20	11/12/ 20	15/12/ 20	1/1/21	4/1/21	5/1/21	6/1/21	8/1/21
1	17Q71A0 556	Attend ed	Absent	Absent	Absent	Attend ed	Absent	Attend ed	Attend ed
2	17Q71A0 557	Attend ed	Absent	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
3	17Q71A0 558	Attend ed							
4	17Q71A0 559	Attend ed							
5	17Q71A0 560	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed
6	17Q71A0 561	Attend ed	Attend ed	Attend ed	Absent	Absent	Attend ed	Attend ed	Absent
7	17Q71A0 562	Attend ed	Attend ed	Absent	Absent	Attend ed	Absent	Absent	Attend ed
8	17Q71A0 563	Attend ed							
9	17Q71A0 566	Attend ed							
10	17Q71A0 567	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent
11	17Q71A0 568	Attend ed	Absent	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed
12	17Q71A0 569	Attend ed	Attend ed	Absent	Attend ed	Absent	Attend ed	Attend ed	Attend ed
13	17Q71A0 570	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed
14	17Q71A0 571	Attend ed							
15	17Q71A0 572	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Absent	Absent
16	17Q71A0 573	Absent	Attend ed	Absent	Absent	Absent	Attend ed	Attend ed	Attend ed
17	17Q71A0 574	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Absent	Attend ed	Attend ed
18	17Q71A0 576	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed

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19	17Q71A0 577	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Absent
20	17Q71A0 578	Absent	Absent	Absent	Absent	Attend ed	Attend ed	Absent	Attend ed
21	17Q71A0 579	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Absent	Attend ed	Attend ed
22	17Q71A0 580	Attend ed							
23	17Q71A0 581	Attend ed	Absent						
24	17Q71A0 582	Absent	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed
25	17Q71A0 583	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Absent	Attend ed	Attend ed
26	17Q71A0 584	Attend ed							
27	17Q71A0 585	Attend ed							
28	17Q71A0 586	Absent	Attend ed						
29	17Q71A0 587	Attend ed	Absent	Absent	Attend ed	Attend ed	Absent	Attend ed	Attend ed
30	17Q71A0 590	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed
31	17Q71A0 591	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Absent
32	17Q71A0 592	Absent	Attend ed	Attend ed	Attend ed	Attend ed	Attend ed	Absent	Attend ed
33	17Q71A0 593	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Attend ed
34	17Q71A0 594	Attend ed							
35	17Q71A0 595	Attend ed							
36	17Q71A0 596	Absent	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed
37	17Q71A0 597	Attend ed							
38	17Q71A0 598	Attend ed	Absent						
39	17Q71A0 599	Attend ed							

*M*  
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**DEPARTMENT OF MANAGEMENT STUDIES**

**Date:1/08/2020**

**Circular**

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**TIME TABLE**

ACADEMIC YEAR:-2020-2021

CLASS: II MBA I SEMESTER SCE-A

YEAR/SEM: -I /I

DAY/ TIME	9.50 TO 10.40	10.40 TO 11.30	11.30 TO 12.20	12.20 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30
MON	SM	RM/IA& PM /PE&CM	CB/FMS /L&CM		CRM/MB &FI /HCM	OR	Case Study/back log class
TUE	SM	CRM/M B&FI /HCM	DM&SM/ TAX /HRM&A	L	CB/FMS /L&CM	OR	SPORTS/r emidialcla ss
WED	SM	DM&SM /TAX /HRM& A	RM/IA&P M /PE&CM	U	CB/FMS /L&CM	OR	Seminars
THR	SM	CRM/M B&FI /HCM	CB/FMS /L&CM	N	DM&SM/ TAX /HRM&A	OR	STR.MGT /tutorials
FRI	CRM/M B&FI /HCM	RM/IA& PM /PE&CM	DM&SM/ TAX /HRM&A	C	CB/FMS /L&CM	MANAGEMENT EVENTS	
SAT	DM&S M/TAX /HRM& A	CB/FMS /L&CM	CRM/MB &FI /HCM	H	RM/IA&P M /PE&CM	GROUP DISCUS SION	LIBRARY



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CLASS: II MBA I SEMESTER SCE-B

Academic Year:-2020-2021  
Year/Sem: -I /I

DAY/ TIME	9.50 TO 10.40	10.40 TO 11.30	11.30 TO 12.20	12.20 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30
MON	SM	RM/IA &PM /PE&C M	CB/FMS /L&CM		CRM/MB &FI /HCM	OR	Case Study/re midial classes
TUE	SM	CRM/M B&FI /HCM	DM&SM/TA X /HRM&A	L	CB/FMS /L&CM	OR	SPORTS /backlog classes
WED	SM	DM&S M/TAX /HRM& A	RM/IA&PM /PE&CM	U	CB/FMS /L&CM	OR	Seminars
THR	SM	CRM/M B&FI /HCM	CB/FMS /L&CM	N	DM&SM/ TAX /HRM&A	OR	STR.MG T
FRI	CRM/MB &FI /HCM	RM/IA &PM /PE&C M	DM&SM/TA X /HRM&A	C	CB/FMS /L&CM	MANAGEMENT EVENTS	
SAT	DM&SM/ TAX /HRM&A	CB/FMS /L&CM	CRM/MB&FI /HCM	H	RM/IA&P M /PE&CM	GROU P DISCU SSION	LIBRAR Y/T



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CLASS: I MBA I SEMESTER SCE-A

YEAR/SEM: -I/I

DAY/TIME	9.50 TO 10.40	10.40 TO 11.30	11.30 TO 12.20	12.20 TO 1:00	1:00 TO 1:50	1:50 TO 2:30	2:40 TO 3:30
MON	AFM	MOB	QABD	L U N C H	MOC	CC	SEMINARS & CASE STUDY
TUE	ME	MOB	QABD		MOC	CC	BE/T
WED	QABD	ME	AFM		I.T LAB		
THU	QABD	AFM	CC		MOC	BE	MOB
FRI	MOC	ME	BE		AFM	CC	LIBRARY/remedial classes
SAT	ME	AFM	MOB		COMMUNICATION LAB		SPORTS/backlog classes

CLASS: I MBA I SEMESTER SCE-B

DAY/TIME	9.50 TO 10.40	10.40 TO 11.30	11.30 TO 12.20	12.20 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30
MON	ME	QABD	MOB	L U N C H	MOC	CC	SPORTS/REMEDIAL CLASSES
TUE	ME	MOB	QABD		I.T LAB		
WED	QABD	AFM	ME		MOC	BE	CC
THR	QABD	MOB	BE		AFM	MOC	SEMINARS & CASE STUDY
FRI	MOC	AFM	ME		COMMUNICATION LAB		CC/BACKLOG CLASSES
SAT	ME	MOB	AFM		BE	CC	LIBRARY/T



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**SECTION –A, B**

**SUBJECT:MANAGERIAL ECONOMICS**

Academic Year:-2020-2021

FACULTY NAME:Y.Sravan kumar

Year/Sem: - I/I

S.NO	DATE	TUTORIAL TOPIC	NO. OF STUDENTS PRESENT
1	04-12-2020	Nature and scope of managerial economics	54
2	11-12-2020	Equi marginal concept	52
3	18-12-2020	Concept of demand	62
4	25-12-2020	Concept of supply	63
5	08-01-2021	Determinents of demand and supply	58
6	22-01-2021	Elasticity of demand and supply	54
7	29-01-2020	Methods of demand forecasting	45
8	05-02-2021	Concept of cost and production	48
9	12-002-2021	Law of variable proportion	45
10	19-02-2021	Economies and dis economies	47



## TUTORIAL ASSIGNMENT

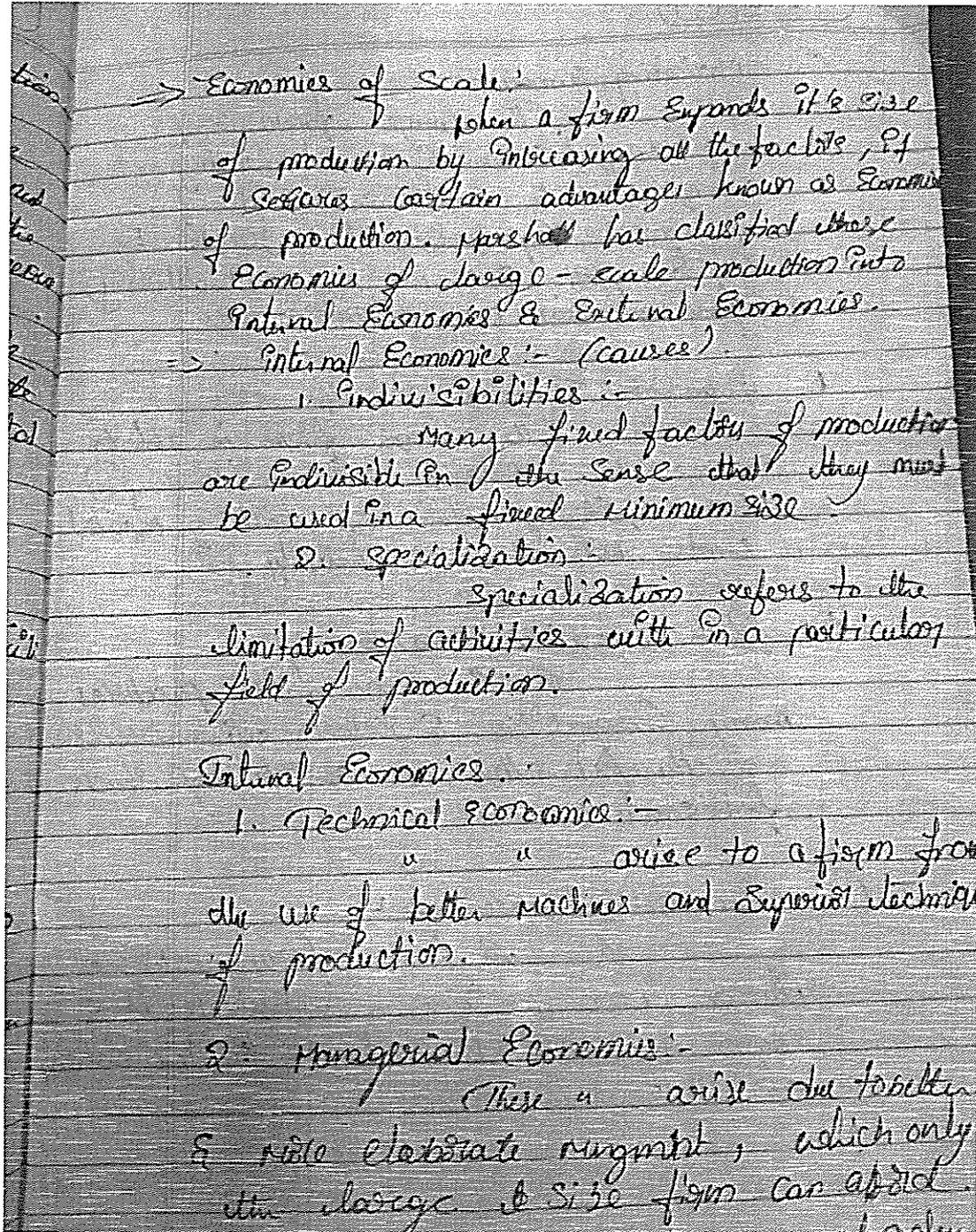
### SECTION -A, B

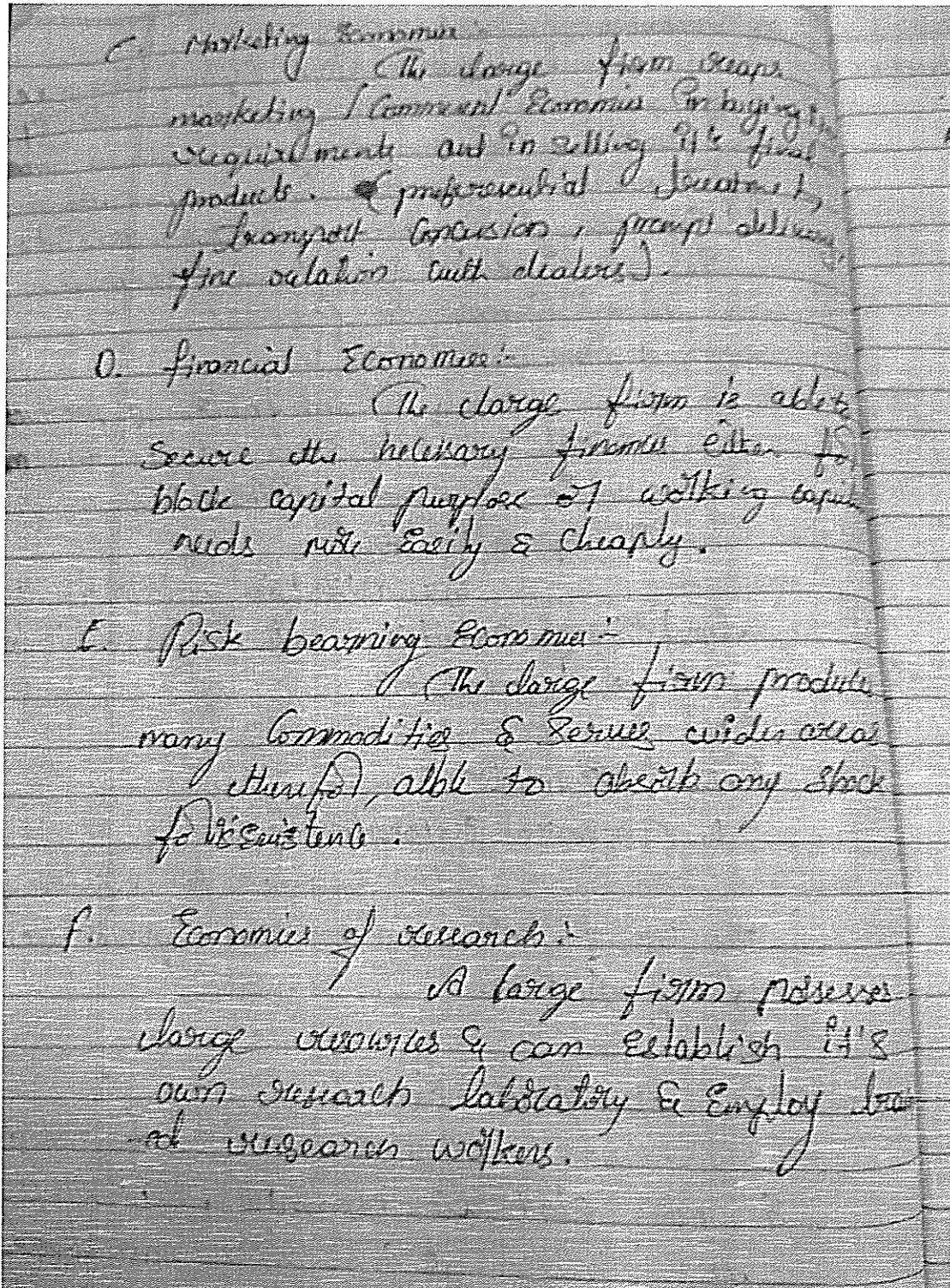
SUBJECT: MANAGERIAL ECONOMICS

Academic Year: -2020-2021

FACULTY NAME: Y.Sravan kumar

Year/Sem: - I/I







### External Economies :-

#### A). Economies of Concentration

When an industry is concentrated in a particular area, all the member firms reap some common economies like skilled labour, improved means of transportation and communication, banking & financial services, supply of power.

#### B). Economies of Information :-

The industry can set up an information centre which may publish a journal. (e.g. iron and steel, automobile, export potentialities, etc.).

#### C). Economies of welfare :-

An industry is in a better position to provide welfare facilities to the workers.

#### D). Economies of size integration :-

The firms in an industry may also reap the economies of specialization, when an industry expands it becomes possible to split up some of the processes which are taken over by specialist firms.



Cost Analysis:

Profit is the ultimate aim of any business. Profit is the difference between the selling price & cost of production. The selling price is not within the control of firm, but many costs are under its control. The firm should therefore aim at controlling and minimizing the cost. Since every business consideration decision involves cost consideration.

Cost Concepts:

A M.E. must have a clear understanding of the different cost concept for their business thinking & proper application.

1. Money cost: Total Money Expenses incurred by a business firm or the various elements into it.
2. Real cost: production of a particular product (e.g. staff salaries, workers wages, power bill payment, purchasing of raw material, transportation cost). Any cost is also called nominal cost.
3. Opportunity cost & outlay cost: Real cost means the real cost of production of a particular product. Outlay cost also known as actual cost is one of those which are actually



**TUTORIAL CLASSES ATTENDANCE SHEET**

SUBJECT:MANAGERIAL ECONOMICS

Academic Year:-2020-2021

FACULTY NAME:

Year/Sem: - I/I-A

SI. NO	REGD. NO	DATE							
		04-12-2020	11-12-2020	18-12-2020	25-12-2020	8-01-2021	22-01-2021	29-01-2021	5-02-2021
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18	20Q71E0018	Attend ed	Attend ed	Attend ed	Absent	Attend ed	Absent	Attend ed	Absent

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41	20Q71E	Absent	Attend	Absent	Absent	Attend	Attend	Absent	Absen

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	0041		ed			ed	ed		t
42	20Q71E 0042	Attend ed	Attend ed	Attend ed	Attend ed	Absen t	Attend ed	Absent	Attend ed
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47	20Q71E 0047	Absent	Absent	Absent	Attend ed	Absen t	Attend ed	Absent	Absen t



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**TUTORIAL CLASSES ATTENDANCE SHEET**

SUBJECT:MANAGERIAL ECONOMICS

Academic Year:-2020-2021

FACULTY NAME:

Year/Sem: - I/I-B

Sl. NO	REGD. NO	DATE							
		04-12-2020	11-12-2020	18-12-2020	25-12-2020	8-01-2021	22-01-2021	29-01-2021	5-02-2021
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	0088	ed	ed	ed	ed	ed		ed	ed
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47	20Q71E 0094	Attend ed	Attend ed	Absent	Attend ed	Attend ed	Attend ed	Absent	Attend ed

Head of the Department  
Master of Business Administration  
& Management Engg. & Techno.  
Cherukupally, Bhogapuram, A.  
VIZIANAGARAM (Dist.)  
**HOD-MBA**



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**PROBLEM SOLVING CLASSES**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**Academic Year: 2020-21**

Subject Name: Programming For Problem Solving Using C

Year/Sem: I/I

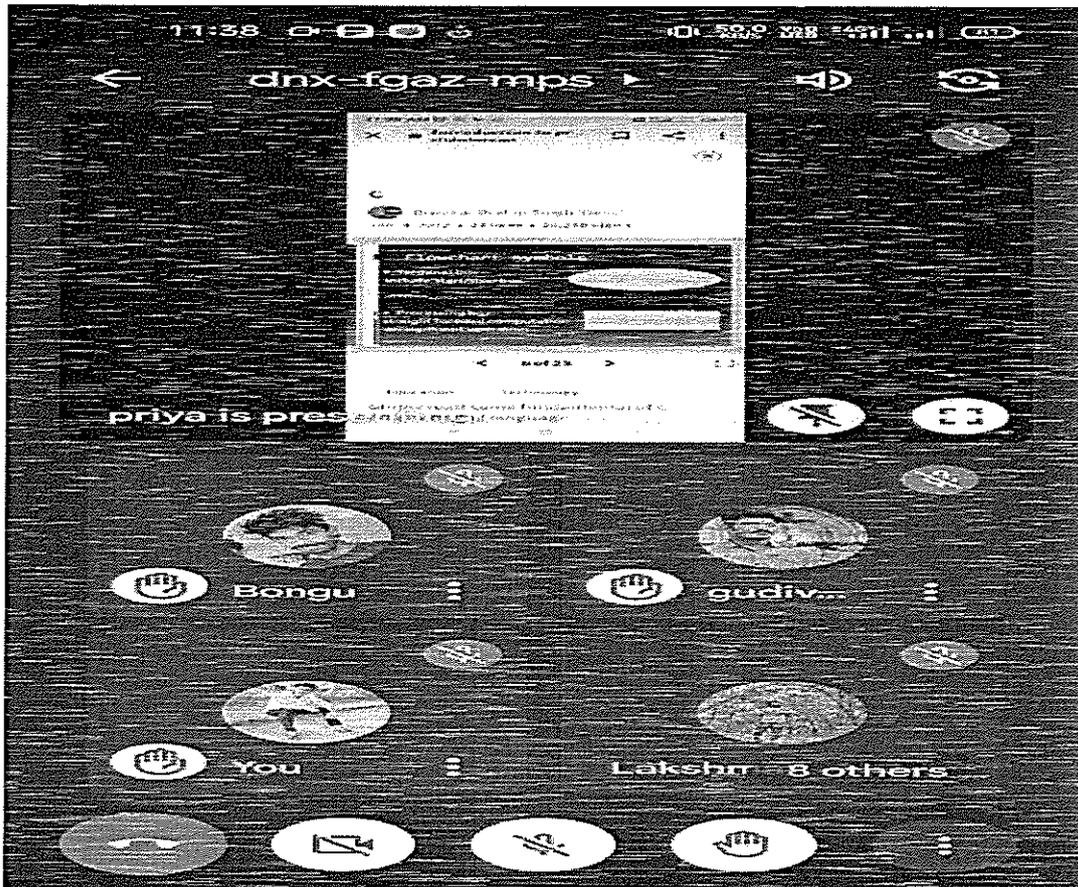
Faculty Name: A.VASUDEVA RAO

Date: 05/02/2021

LINK: <https://meet.google.com/jzk-yaid-ekc>

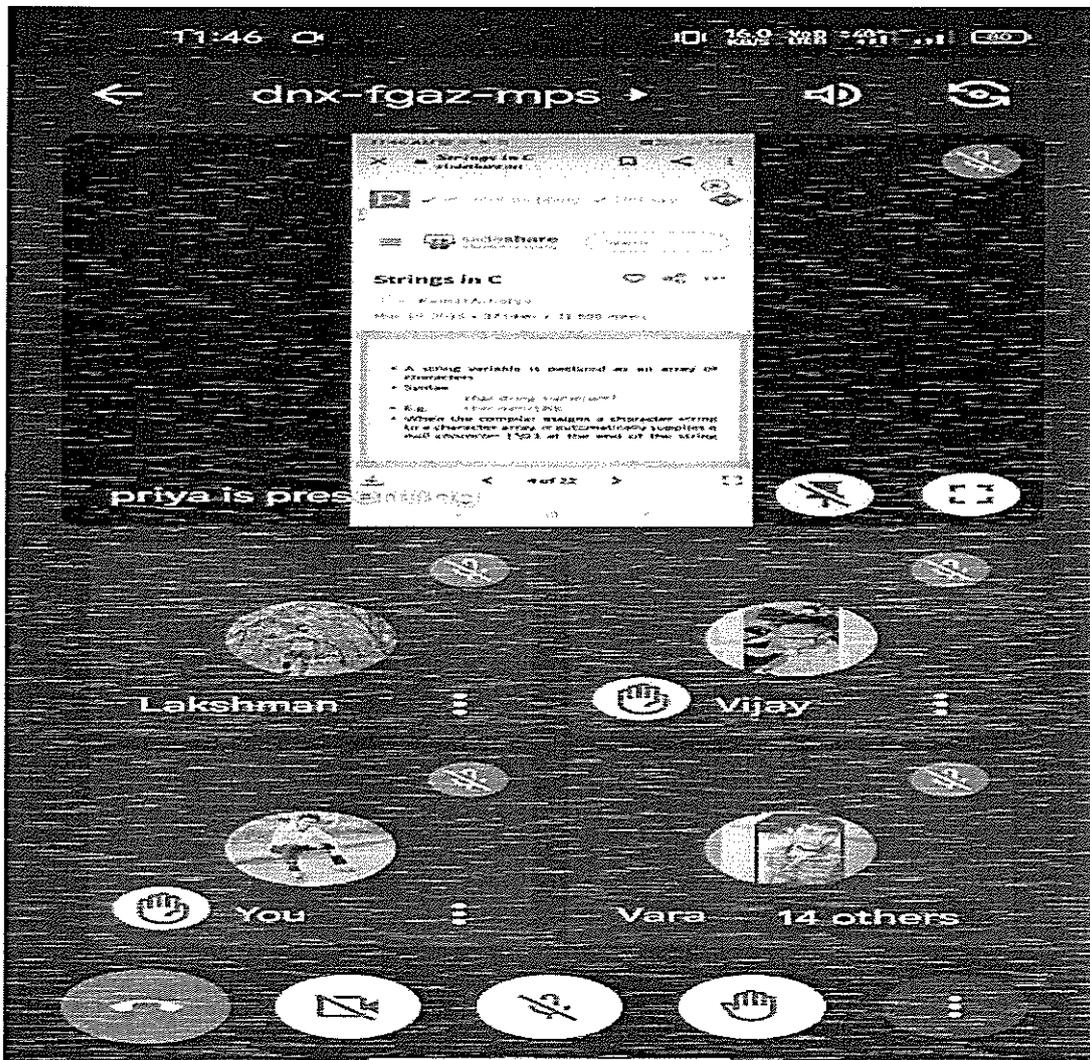
Screen Shot-1

UNIT-1





Screen Shot-2





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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Academic Year: 2020-21

Subject Name: Programming For Problem Solving Using C

Year/Sem: 1/1

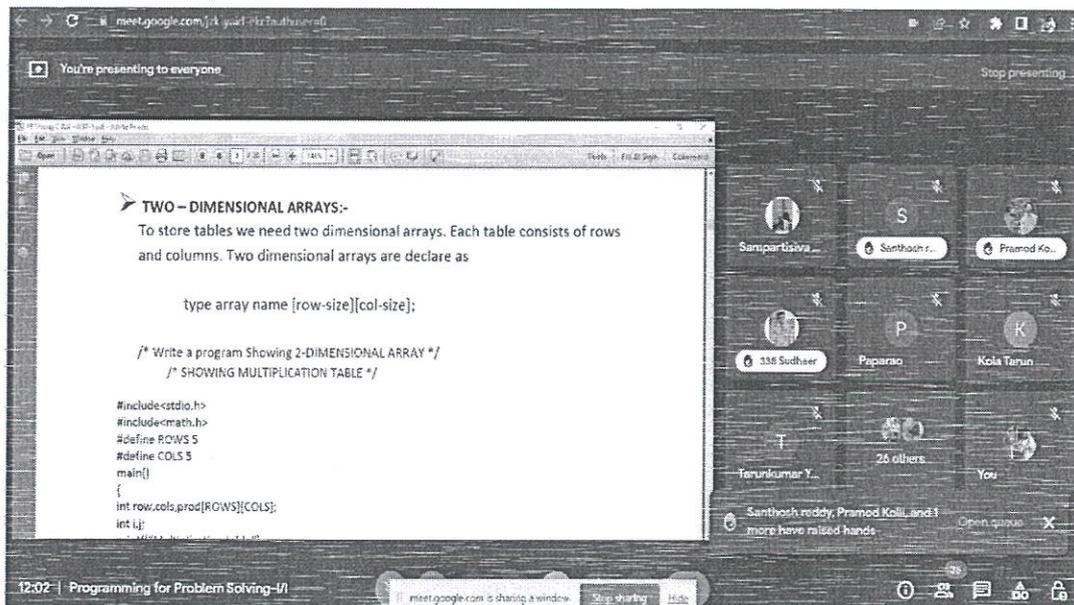
Faculty Name: A.VASUDEVA RAO

Date: 05/02/2021

LINK: <https://meet.google.com/jzk-yaid-ekc>

Screen Shot-1

UNIT-3



  
**HOD-EEE**

**Head of The Department**  
Department of Electrical and Electronics Engineering  
Avanathi Institute of Engg. & Tech.  
Cherukupally (V), Chittivalasa (SAO)  
Bhogapuram (M), Vizianagaram(Dist)-531163



**DEPARTMENT OF MECHANICAL ENGINEERING**

Academic Year: 2020-21

Subject Name: Programming For Problem Solving Using C

Year/Sem: 1/1

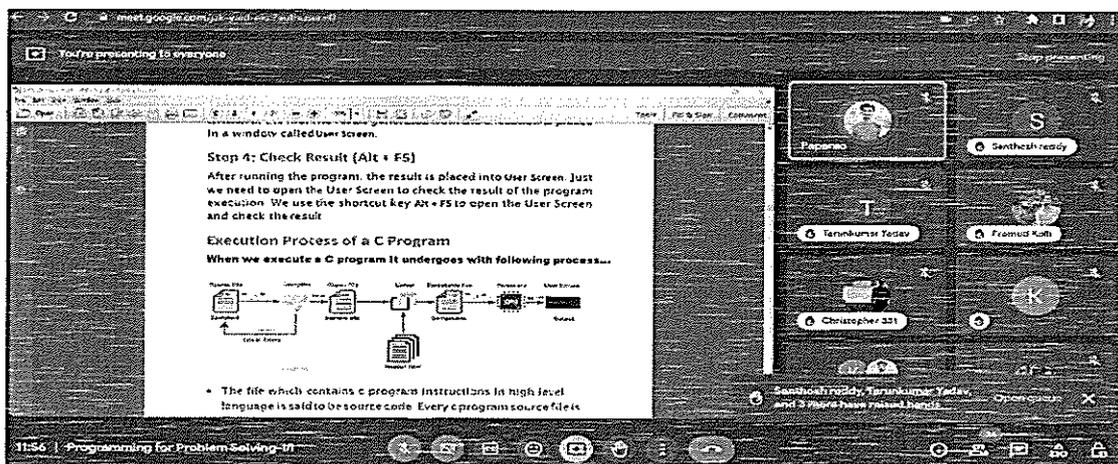
Faculty Name:

Date: 02/02/2021

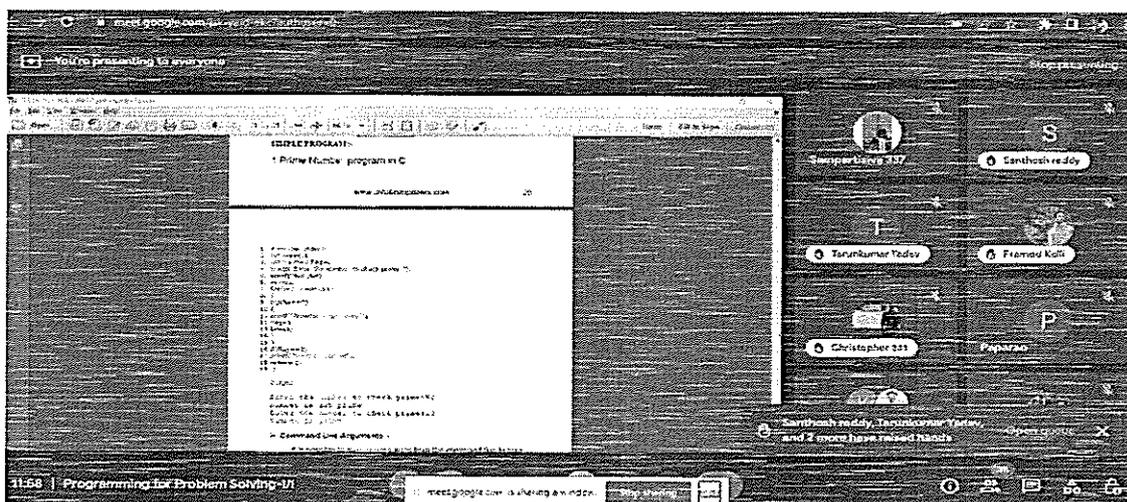
LINK: <https://meet.google.com/jzk-yaid-ekc>

Screen Shot-1

UNIT-1



Screen Shot-2







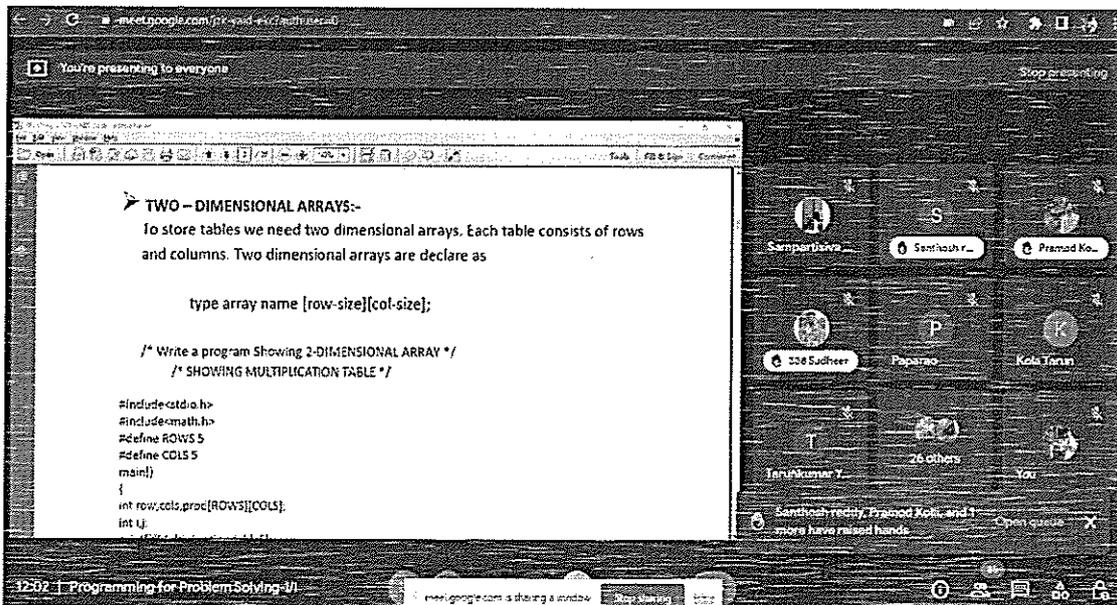
Academic Year: 2020-21  
Subject Name: Programming For Problem Solving Using C  
Faculty Name:

Year/Sem: 1/1  
Date: 02/02/2021

LINK: <https://meet.google.com/jzk-yaid-ekc>

Screen Shot-1

UNIT-3





Academic Year: 2020-21

Subject Name: Programming For Problem Solving Using C  
Faculty Name:

Year/Sem: 1/1  
Date: 02/02/2021

LINK: <https://meet.google.com/jzk-yaid-ekc>

Screen Shot-1

UNIT-4

The screenshot shows a Google Meet interface. The main content is a presentation slide titled "> Array of Pointers:-". The slide text reads: "In computer programming, an array of pointers is an indexed set of variables in which the variables are pointers (a reference to a location in memory)." followed by a bulleted list: "• Pointers are an important tool in computer science for creating, using, and destroying all types of data structures.", "• An array of pointers is useful for the same reason that all arrays are useful: it allows you to numerically index a large set of variables.", "• Below is an array of pointers in C that sets each pointer in one array to point to an integer in another and then print the values of the integers by dereferencing the pointers." The right side of the screen shows a list of participants with their initials and names: Tarunkumar Yadav, Santhoshreddy, Fremod Koll, 338 Sudheer, Paparao, Kola Tarun, 24 others, and You. The bottom of the screen shows the meeting controls and a timestamp of 12:04.



Academic Year: 2020-21

Subject Name: Programming For Problem Solving Using C

Year/Sem: 1/1

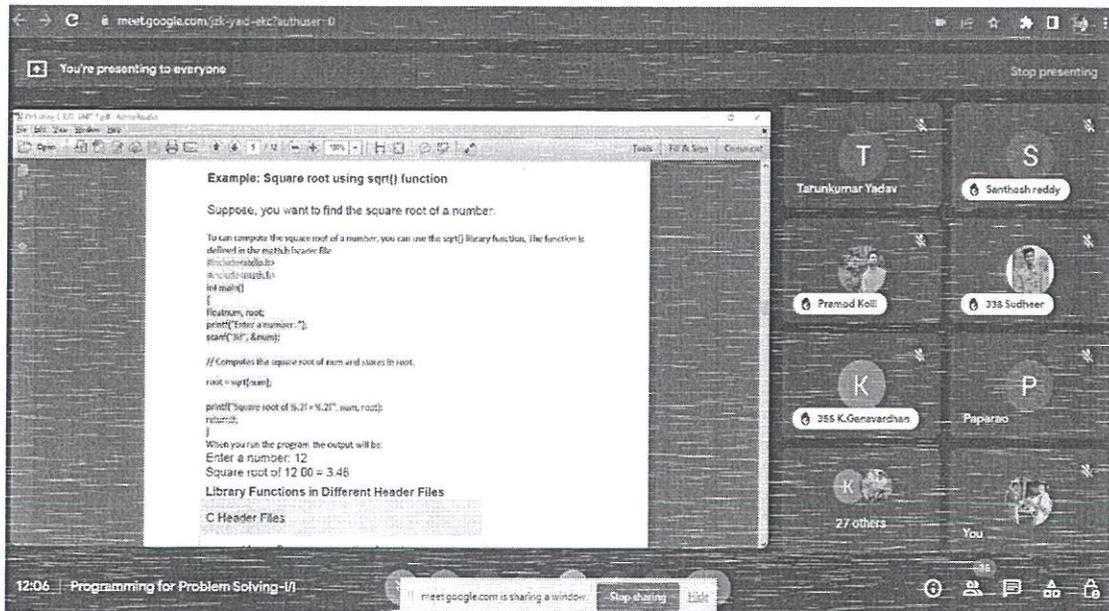
Faculty Name:

Date: 02/02/2021

LINK: <https://meet.google.com/jzk-yaid-ekc>

Screen Shot-1

UNIT-5



*Shanif*  
**HOD-MECH**  
**MECHANICAL DEPARTMENT**  
AVANTHI INSTITUTE OF ENGG. & TEC  
Bhogapuram (M), Vizianagaram (Dist.)



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Academic Year: 2020-21**

**Subject Name: Programming For Problem Solving Using C**

**Year/Sem: 1/1**

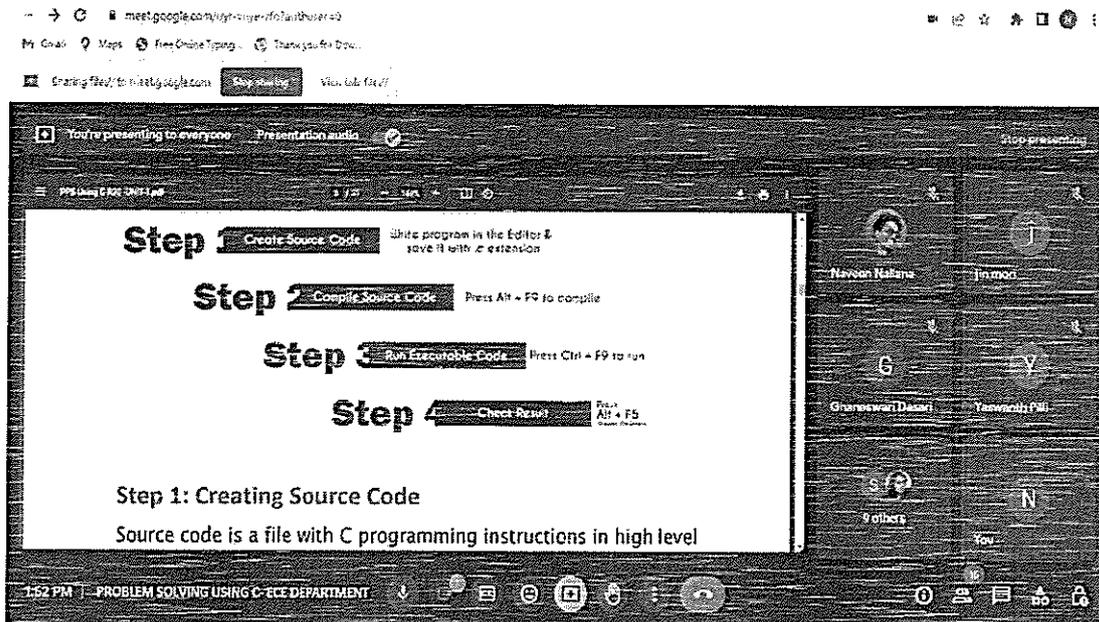
**Faculty Name: A.Vasu Deva Rao**

**Date: 02/02/2021**

**LINK: <https://meet.google.com/uyr-vnye-zfo>**

**Screen Shot-1**

**UNIT-1**





**Academic Year: 2020-21**

**Subject Name: Programming For Problem Solving Using C**

**Year/Sem: 1/1**

**Faculty Name: A.Vasu Deva Rao**

**Date: 08/02/2021**

**LINK: <https://meet.google.com/uyr-vnye-zfo>**

**Screen Shot-1**

**UNIT-2**

The screenshot shows a Google Meet interface with a presentation slide. The slide content is as follows:

**Overall Process:-**

- Type the program in C editor and save with .c extension (Press F2 to save).
- Press Alt + F9 to compile the program.
- If there are errors, correct the errors and recompile the program.
- If there are no errors, then press Ctrl + F9 to execute / run the program.
- Press Alt + F5 to open User Screen and check the result.

The meeting interface includes a top bar with the URL [meet.google.com/uyr-vnye-zfo](https://meet.google.com/uyr-vnye-zfo), a toolbar with icons for mute, video, chat, and help, and a participant list on the right side showing names like Naveen Halima, Jitendra, G, Y, Graneshwar Dasari, Yashwardi Patil, S, N, and You.



Academic Year: 2020-21

Subject Name: Programming For Problem Solving Using C

Year/Sem: 1/1

Faculty Name: A.Vasu Deva Rao

Date: 13/02/2021

LINK: <https://meet.google.com/uyr-vnye-zfo>

Screen Shot-1

UNIT-3

The screenshot shows a Google Meet interface with a presentation slide titled "Programming C for Unit 3.pdf". The slide content is as follows:

- Arrays:**
  - An array is a group of related data items that share a common name. Ex: Students
  - The complete set of students are represented using an array name students.
  - A particular value is indicated by writing a number called index number or subscript in brackets after array name.
  - The complete set of value is referred to as an array. The individual values are called elements.
- Using Array in C-**
  - to store list of Employee or Student names,
  - to store names of students,
  - or to store list of numbers or characters etc.
- Since array provides an easy way to represent data, it is classified amongst the data structures in C. Other data structures in C are structure, lists, queues, trees etc. Array can be used to represent not only single list of data but also table of data in two or three dimensions.
- Array Application-**  
In C programming language, arrays are used in the following ways:

The meeting interface shows several participants: Naveen Nallana, Gnaneswari Dazari, Yashwanth Reddy, Supriya Patil Sushda, Mahantini Kusuma, VUma, and 5 others. The bottom status bar indicates the time is 1:55 PM and the meeting is titled "PROBLEM SOLVING USING C- ECE DEPARTMENT".



Academic Year: 2020-21

Subject Name: Programming For Problem Solving Using C

Year/Sem: 1/1

Faculty Name: A.Vasu Deva Rao

Date: 18/02/2021

LINK: <https://meet.google.com/uyr-vnye-zfo>

Screen Shot-1

UNIT-4

The screenshot shows a Google Meet window with a presentation slide titled "Pointers to pointers:". The slide content is as follows:

Pointers to pointers:-

- A pointer to a pointer is a form of multiple indirection, or a chain of pointers. Normally, a pointer contains the address of a variable.
- When we define a pointer to a pointer, the first pointer contains the address of the second pointer, which points to the location that contains the actual value as shown below.

Diagram illustrating pointer to pointer:

```
graph LR
    P1[Pointer] --> A1[Address]
    A1 --> P2[Pointer]
    P2 --> V[Variable]
```

• A variable that is a pointer to a pointer must be declared as such.

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The screenshot also shows the Windows taskbar at the bottom with the system tray displaying the time as 1:56 PM and the text "PROBLEM SOLVING USING C- ECE DEPARTMENT".



**Academic Year: 2020-21**

**Subject Name: Programming For Problem Solving Using C**

**Year/Sem: 1/1**

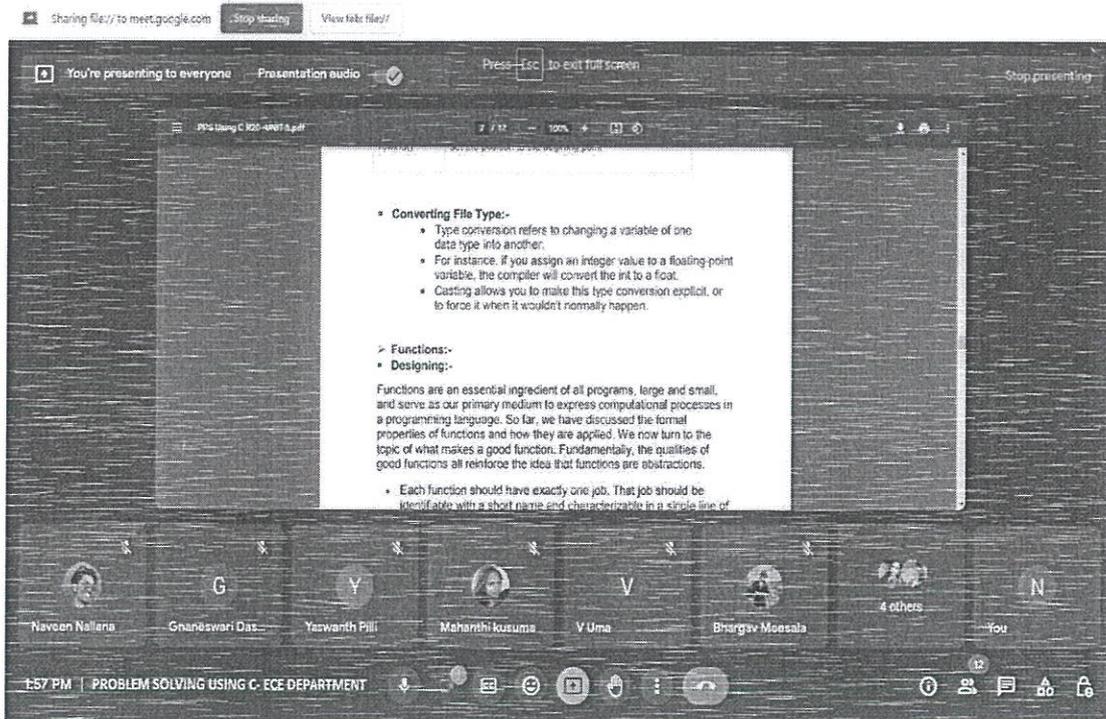
**Faculty Name: A.Vasu Deva Rao**

**Date: 23/02/2021**

**LINK: <https://meet.google.com/uyr-vnye-zfo>**

**Screen Shot-1**

**UNIT-5**



**Head of the Department**  
**Electronics & Communication Engineering**  
**AVANTHI INSTITUTE OF ENGG. & TECH**  
**HOD-ECE**  
**Cherukupally (Vill), Bhogapuram (M)**  
**VIZIANAGARAM (DIST)**



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Academic Year: 2020-21

Subject Name: Programming For Problem Solving Using C

Year/Sem: I/I

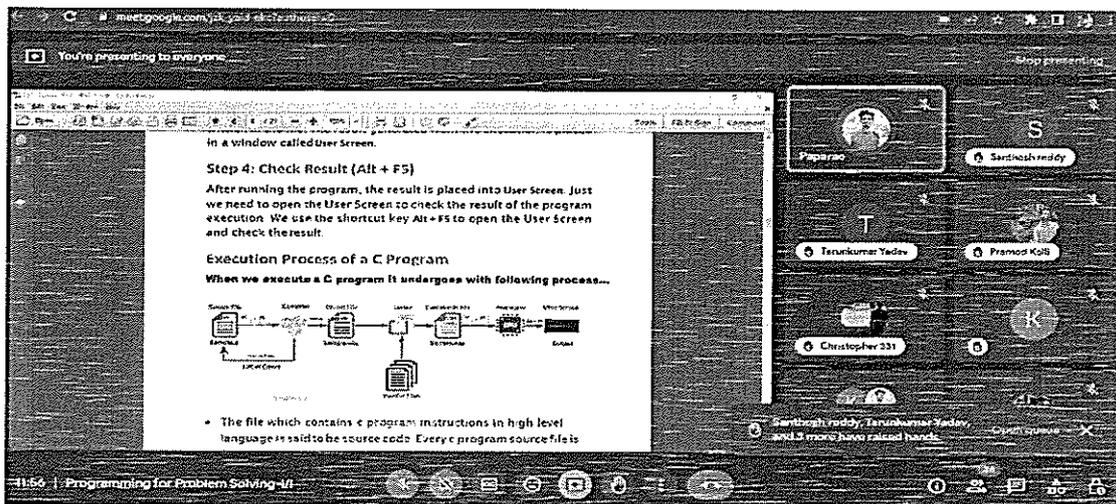
Faculty Name: Dr.A.Chandra Sekhar

Date: 02/02/2021

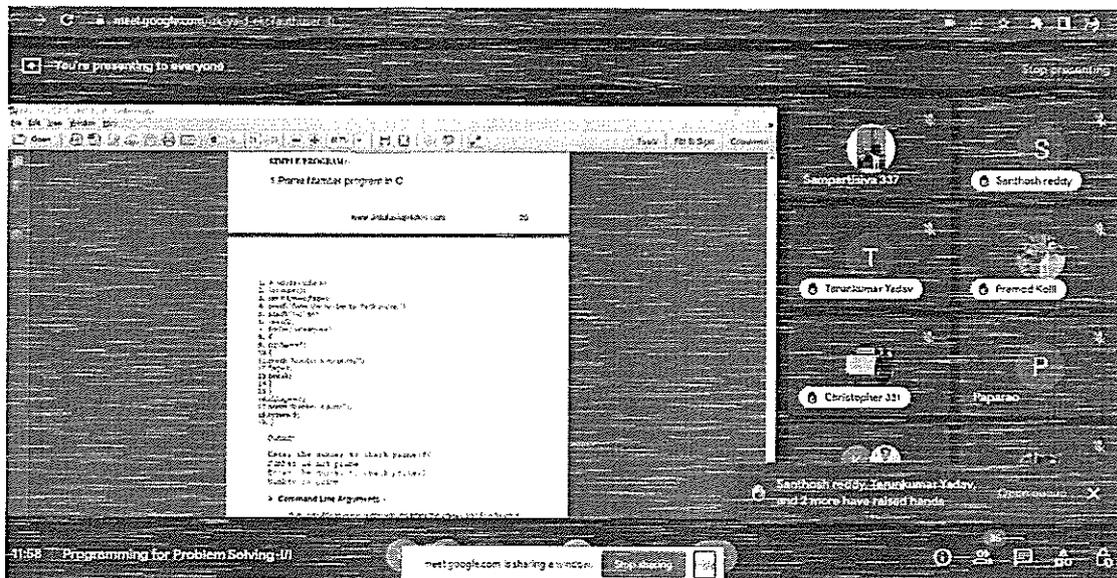
LINK: <https://meet.google.com/jzk-yaid-ekc>

**Screen Shot-1**

**UNIT-1**



**Screen Shot-2**







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Vizianagaram -531162.

www.aietta.ac.in, [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

Subject Name: Programming For Problem Solving Using C

Year/Sem: I/I

Faculty Name: Dr.A.Chandra Sekhar

Date: 02/02/2021

LINK: <https://meet.google.com/jzk-yaid-ekc>

Screen Shot-1

UNIT-3

The screenshot shows a Google Meet window with a presentation slide. The slide content is as follows:

**TWO – DIMENSIONAL ARRAYS:-**  
To store tables we need two dimensional arrays. Each table consists of rows and columns. Two dimensional arrays are declare as

```
type array name [row-size][col-size];
```

*/\* Write a program Showing 2-DIMENSIONAL ARRAY \*/  
/\* SHOWING MULTIPLICATION TABLE \*/*

```
#include<stdio.h>  
#include<math.h>  
#define ROWS 5  
#define COLS 5  
main()  
{  
    int row,col,prod;ROWS[COLS];  
    int i,j;
```

The right side of the screenshot shows a grid of participants in the meeting, including names like Sampath Kumar, Sarthosh, Prasad Ka., and others. At the bottom, there is a status bar indicating the meeting title "12-02 | Programming for Problem Solving - I/I" and the URL "meet.google.com/jzk-yaid-ekc".



Subject Name: Programming For Problem Solving Using C

Year/Sem: 1/1

Faculty Name: Dr.A.Chandra Sekhar

Date: 02/02/2021

LINK: <https://meet.google.com/jzk-yaid-ekc>

Screen Shot-1

UNIT-4

The screenshot shows a Google Meet window with a presentation slide titled "Array of Pointers:-". The slide content is as follows:

**Array of Pointers:-**  
In computer programming, an array of pointers is an indexed set of variables in which the variables are pointers (a reference to a location in memory).

- Pointers are an important tool in computer science for creating, using, and destroying all types of data structures.
- An array of pointers is useful for the same reason that all arrays are useful: It allows you to numerically index a large set of variables.
- Below is an array of pointers in C that sets each pointer in one array to point to an integer in another and then print the values of the integers by dereferencing the pointers.

The meeting interface shows several participants: Tarakumar Yadav, Santhosh Reddy, Pramod Kulkarni, 238 Sudheer, Paparao, Kola Tarun, and 7 others. The bottom of the screen shows the system tray with the time 12:04 and the window title "Programming for Problem Solving-1/1".



Subject Name: Programming For Problem Solving Using C

Year/Sem: 1/1

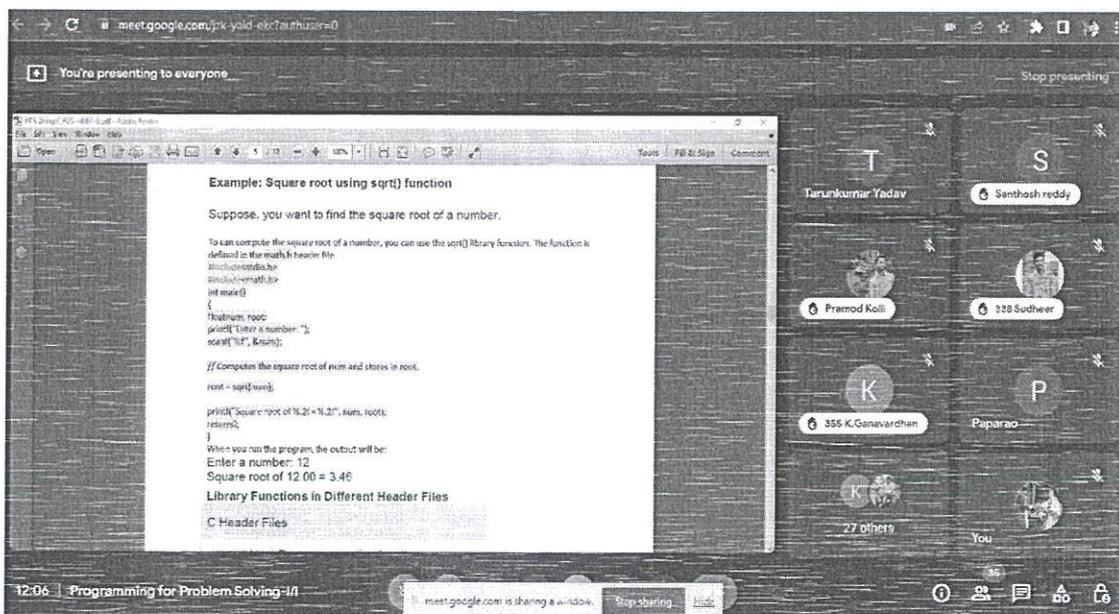
Faculty Name: Dr.A.Chandra Sekhar

Date: 02/02/2021

LINK: <https://meet.google.com/jzk-yaid-ekc>

Screen Shot-1

UNIT-5



Head of the Department  
Computer Science and Engineering  
AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY  
Cherukupally (V), Chittivalasa (SAO),  
Bhogapuram (M), Vizianagaram(D)-531162



**DEPARTMENT OF MANAGEMENT STUDIES**

Academic Year: 2020-21

Subject Name: QABD  
 Faculty Name: T .Srinivas

Year/Sem: I/I  
 Date: 19/02/2021

LINK: <https://kanchiuniv.ac.in/coursematerials/qtbusinessdecision>

**Screen Shot-1**

**UNIT-1**

1) Two samples of 6 and 7 items have the following values of the variables. The mean value of these 1

Sample I	39	41	43	41	45	39	
Sample II	40	42	40	44	39	38	40

Do the sample variances vary significantly?

Solution

Null hypothesis  $H_0: \sigma_1^2 = \sigma_2^2$

The sample variances do not differ significantly

Alternative hypothesis  $H_1: \sigma_1^2 \neq \sigma_2^2$

$$F = \frac{S_1^2}{S_2^2}$$

X <sub>1</sub>	x <sub>1</sub> - $\bar{x}_1$	(x <sub>1</sub> - $\bar{x}_1$ ) <sup>2</sup>	X <sub>2</sub>	x <sub>2</sub> - $\bar{x}_2$	(x <sub>2</sub> - $\bar{x}_2$ ) <sup>2</sup>
39	-2.3	5.29	40		0.16
41		0.09	42	1.6	2.56
43	1.7	2.89	40	-0.4	0.16
41	-0.3	0.09	44	3.6	12.96



Screen Shot-2

45	3.7	13.69	39	-1.4	1.96
39	-2.3	5.29	38	-2.4	5.76
			40	-0.4	0.16
Total		27.34			23.72

$$\bar{x}_1 = \frac{\sum x_1}{n_1} = \frac{248}{6} = 41.3$$

$$\bar{x}_2 = \frac{\sum x_2}{n_2} = \frac{283}{7} = 40.4$$

$$S_1^2 = \frac{\sum (X - \bar{X}_1)^2}{n_1 - 1}$$

$$= 5.468$$

$$S_2^2 = \frac{\sum (X - \bar{X}_2)^2}{n_2 - 1}$$

$$= 3.9533$$



Subject Name: QABD  
Faculty Name: T .Srinivas

Year/Sem: I/I  
Date: 19/02/2021

LINK: <https://kanchiuniv.ac.in/coursematerials/qtbusinessdecision>

Screen Shot-1

UNIT-2

(v) If A, B, C are any three events then  
 $P(A \cup B \cup C) = P(A) + P(B) + P(C) - P(A \cap B) - P(B \cap C) - P(C \cap A) + P(A \cap B \cap C)$

(vi) Two events A and B are independent if  $P(A \cap B) = P(A)P(B)$

This is known as multiplication law of probability

(vii) If A and B are independent events then  $\bar{A}$  and  $\bar{B}$  also independent

Examples

1. In tossing a coin, find the probability of getting a head?

*Solution*

$$P(\text{getting a head}) = \frac{\text{Number of favourable events}}{\text{Number of exhaustive events}} = \frac{1}{2}$$

2. From a bag containing 10 black and 12 white balls, a ball is drawn at random. What is the probability that it is black?

*Solution*

Let A be the event of selecting a black ball .

Total number of balls = 10+12=22

Total number of possible (exhaustive) ways of choosing one ball =  ${}^{22}C_1 = 22$  ways

n(S)=22

---



Subject Name: QABD

Year/Sem: I/I

Faculty Name: T.Srinivas

Date: 19/02/2021

LINK: <https://kanchiuniv.ac.in/coursematerials/qtbusinessdecision>

Screen Shot-1

UNIT-3

### PROBABILITY DISTRIBUTIONS

#### Introduction

While constructing probabilistic models for observable phenomena, certain probability distributions arise more frequently than do others. We treat such distributions that play important roles in many engineering applications as special probability distributions.

#### DISCRETE DISTRIBUTIONS

##### Bernoulli Trials and Bernoulli Distributions

Let A be an event (trial) associated with a random experiment such that  $P(A)$  remains the same for the repetitions of that random experiment, then the events are called Bernoulli trials.

A random variable X which takes only two values either 1 (success) or 0 (failure) with probability p and q respectively. i.e.,  $P(X=1)=p$ ,  $P(X=0)=q$ ,  $p+q=1$  is called Bernoulli variate and is said to have a Bernoulli distribution.

##### Moments of Bernoulli Distribution

$$\mu_r' = E(X^r) = 1^r \cdot p + 0^r \cdot q = p$$

$$\mu_1' = E(X) = p, \mu_2' = E(X^2) = p$$

Mean = p

$$Var(X) = E(X^2) - [E(X)]^2 = p - p^2 = p(1-p) = pq$$



Subject Name: QABD

Year/Sem: I/I

Faculty Name: T.Srinivas

Date: 19/02/2021

LINK: <https://kanchiuniv.ac.in/coursematerials/qtbusinessdecision>

Screen Shot-1

UNIT-4

#### SMALL SAMPLES

##### Definition

The group of individuals under study is called population or universe.

The population may be finite or infinite

##### Definition

A finite subset of statistical individuals in a population is called sample.

##### Definition

The number of individuals in a sample is called sample size.

##### Example

In a shop we assess the quality of rice or any other commodity by taking a handful of it from the bag and decide to purchase it or not.

##### Parameters and statistics

The statistical constants of the population namely mean  $\mu$ , variance  $\sigma^2$  which are usually referred to as parameters.

Statistical measures computed from sample observations alone

Example: Mean, variance etc are usually referred to as statistic.

##### Sampling Distribution

If we draw a sample of size  $n$  from a given finite population of size  $N$  then the total number of possible samples is  $N_C^n$ .



Subject Name: QABD

Year/Sem: I/I

Faculty Name: T.Srinivas

Date: 19/02/2021

LINK: <https://kanchiuniv.ac.in/coursematerials/qtbusinessdecision>

Screen Shot-1

UNIT-5

Linear programming problem deal with determining optimal allocations of limited resources to meet given objectives. The resources may be in the form of men, raw materials, market demand, money and machines etc. The objective is usually maximizing profit, minimizing total cost, maximizing utility etc. There are certain restrictions on the total amount of each resource available and on the quantity or quality of each product mode.

#### Definition

Linear programming problem deals with the optimization (Maximization or Minimization) of a function of decision variables (The variables whose values determine the solution of a problem are called decision variables of the problem) known as objective function subject to a set of simultaneous linear equations (or inequalities) known as constraints. The term linear means that all the variables occurring in the objective function and the constraints are of the first degree in the problems under consideration and the term programming means the process of determining a particular course of action.

#### Mathematical Formulation of L.P.P

If  $x_j$  ( $j=1,2,\dots,n$ ) are the  $n$  decision variables of the problem and if the system is subject to  $m$  constraints the general Mathematical model can be written in the form

Optimize  $Z = f(x_1, x_2, \dots, x_n)$  Objective function

Subject to  $g_i(x_1, x_2, \dots, x_n) \leq b_i, =, \geq b_i$  ( $i = 1, 2, \dots, m$ ) constraints

(called structural constraints)

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**HOD-MBA**



**CASE STUDY**

**DEPARTMENT OF MANAGEMENT STUDIES**

Academic Year: 2020-2021

**Report on Case study on “Organization Behavior”**

Timings: 2:20 pm to 3:10pm

Year/Semester: I/I

Subject Name: **Management and Organization Behavior**

Date: 02/03/2021

**Case study: Organization Behavior**

Let us examine the problem faced by Mr. Nataraj, Regional Manager of Alpha Pvt. Ltd. Alpha makes and distributes products from more than 10 international pharmaceutical and health care companies. Mr. Nataraj is responsible for managing existing clients and also to get new clients. He manages a number of sales representatives. Important customers have a dedicated sales representatives, while other sales representatives try to get new clients. One day an important customer (Good Health Hospital) called Mr. Nataraj and complained that Mr. Bhavan (the sales representative) was ineffective and insisted he be removed, or else they would not give any business. Here are Mr. Nataraj's thoughts:

- The track record of Mr. Bhavan was good and he was liked within the company. Dismissing him or even transferring him to a new region will affect the morale of the work force.
- Good health hospitals is a major customer and gives good business. Losing the hospital is not an option. Therefore the demands of the hospital have to be met.

**Q . If you were Mr. Natraj, how will you solve this issue?**

**Ans:**

Here are some sample options:

1. Good Health Hospital is a major customer and cannot be displeased. I will remove or transfer Mr. Bhavan.
2. Mr. Bhavan is a loyal and hard working. I need to keep people like him even if it means losing customers.
3. I will stop answering calls, act ignorant of the whole episode. 'Time will solve the



problem'.

4. I will try to get Mr. Bhavan and the Hospital Superintendent together for discussion and try to compromise over the differences.

5. I will move Mr. Bhavan to a new and more important project – develop new business in the newly formed sub-region. Good Health Hospital will have no problem with the new sales representative.

### **SWOT analysis example**

Here's a sample SWOT analysis for an online tailored shirt business. Although many more factors came up during brainstorming, these were deemed to be the most important.

**S = Strengths**

**W = Weaknesses**

**O = Opportunities**

**T = Threats**

Strengths locally made shirts mean faster turnaround on orders

- Many repeat customers who promote the business
- Good search engine rankings drive free traffic Weaknesses Pricing on locally made shirts is not competitive
- Higher costs mean fewer fabric options due to inventory costs
- Customers don't like taking their own measurements Opportunities Using technology to simplify the measurement process could increase
- Conversions New paid advertising channels such as Instagram and Pinterest could be effective
- Custom made clothing is currently trending Threats Several competitors are currently undercutting prices.
- Website is difficult to use on a mobile device even though mobile traffic is Increasing A strong dollar could drive down international sales.



**Report on Case study on "Organization Behavior"**

Timings: 2:20 pm to 3:10pm

Year/Semester: I/I

Subject Name: Management and Organization Behavior

Date: 2-03-2021

**ATTENDANCE SHEET**

S NO	REGD NO	ATTENDANCE
1	20Q7E0001	Absent
2	20Q7E0002	Attended
3	20Q7E0003	Attended
4	20Q7E0004	Attended
5	20Q7E0005	Absent
6	20Q7E0006	Attended
7	20Q7E0007	Attended
8	20Q7E0008	Attended
9	20Q7E0009	Attended
10	20Q7E0010	Attended
11	20Q7E0011	Attended
12	20Q7E0012	Attended
13	20Q7E0013	Attended
14	20Q7E0014	Absent
15	20Q7E0015	Attended
16	20Q7E0016	Attended
17	20Q7E0017	Attended
18	20Q7E0018	Absent
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26	20Q7E0026	Absent
27	20Q7E0027	Attended
28	20Q7E0028	Attended
29	20Q7E0029	Attended
30	20Q7E0030	Absent
31	20Q7E0031	Attended
32	20Q7E0032	Attended
33	20Q7E0033	Attended
34	20Q7E0034	Attended
35	20Q7E0035	Absent
36	20Q7E0036	Attended

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37	20Q7E0037	Attended
38	20Q7E0038	Attended
39	20Q7E0039	Attended
40	20Q7E0040	Absent
41	20Q7E0041	Attended
42	20Q7E0042	Attended
43	20Q7E0043	Attended
44	20Q7E0044	Attended
45	20Q7E0045	Attended
46	20Q7E0046	Attended
47	20Q7E0047	Attended
78	20Q7E0048	Attended
49	20Q7E0049	Attended
50	20Q7E0050	Absent
51	20Q7E0051	Attended
52	20Q7E0052	Attended
53	20Q7E0053	Attended
54	20Q7E0054	Absent
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66	20Q7E0066	Attended
67	20Q7E0067	Attended
68	20Q7E0068	Attended
69	20Q7E0069	Attended
70	20Q7E0070	Attended
71	20Q7E0071	Attended
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73	20Q7E0073	Absent
74	20Q7E0074	Attended
75	20Q7E0075	Attended
76	20Q7E0076	Attended
77	20Q7E0077	Attended
78	20Q7E0078	Attended
79	20Q7E0079	Attended
80	20Q7E0080	Attended

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[www.aietta.ac.in](http://www.aietta.ac.in), [principal@aietta.ac.in](mailto:principal@aietta.ac.in)

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81	20Q7E0081	Absent
82	20Q7E0082	Attended
83	20Q7E0083	Attended
84	20Q7E0084	Attended
85	20Q7E0085	Absent
86	20Q7E0086	Attended
87	20Q7E0087	Attended
88	20Q7E0088	Attended
89	20Q7E0089	Absent
90	20Q7E0090	Attended
91	20Q7E0091	Attended
92	20Q7E0092	Attended
93	20Q7E0093	Attended
94	20Q7E0094	Absent



**Report on Case study on “Employee Recognition V/S Employee Equality”**

Timings: 2:20 pm to 3:10pm

Year/Semester: I/II

Subject Name: **human resource management**

Date: 6-07-2021

**Case study: Employee Recognition V/S Employee Equality**

Watson Public Ltd Company is well known for its welfare activities and employee-oriented schemes in the manufacturing industry for more than ten decades. The company employs more than 800 workers and 150 administrative staff and 80 management-level employees. The Top-level management views all the employees at the same level. This can be clearly understood by seeing the uniform of the company which is the Same for all starting from MD to floor level workers. The company has 2 different cafeterias at different places one near the plant for workers and others near the Administration building. Though the place is different the amenities, infrastructure and the food provided are of the same quality. In short, the company stands by the rule of **Employee Equality**.

The company has one registered trade union. The relationship between the union and the management is very cordial. The company has not lost a single man day due to strike. The company is not a paymaster in that industry. The compensation policy of that company, when compared to other similar companies, is very less still the employees don't have many grievances due to the other benefits provided by the company. But the company is facing a countable number of problems in supplying the materials in the recent past days. Problems like quality issues, mismatch in packing materials (placing material A in the box of material B) incorrect labeling of material, not dispatching the material on time, etc...

The management views the case as there are loopholes in the system of various departments and hand over the responsibility to the HR department to solve the issue. When the HR manager goes through the issues he realized that the issues are not relating to the system but it relates to the employees. When investigated he come to know that the reason behind the casual approach by employees in work is The company hired new employees for a higher-level post without considering the potential internal candidates.



The newly hired employees are placed with higher packages than that of existing employees in the same address.

**Questions:**

1. **Narrate the case with a suitable title for the case. Justify your title.**

**Solution:** Employee Equality is not the need for every hour. In the above-said case, Watson Ltd had provided all facilities to employees at each grade in an equal manner. But still, the employees started creating certain issues like materials are meeting the quality supply schedule is not met etc. And the HR manager said that the policy of hiring new employees for the higher post without considering old potential employees is the major problem.

“**Employee recognition VS Employee equality**”. As the HR manager states that employees are not been recognized for the potential rather the company has gone for new recruitment. Because of which the company faces problems.

2. **The points rose by the HR manager as the reason for the latest issues in the organization is justifiable or not. Support your answer with Human resource related concepts.**

**Solution:** Yes, the points raised by the HR manager is justifiable because “Human beings are social Animals as popularly” said by many Human resources Scholars. So human minds demand social recognition, self-respect, consideration, etc for their work and performance. In the above-said case, even the company provides and stands by the concept of employee equality when it fails to recognize the potential talents of existing employee they felt dissatisfaction towards the organization and they showed in the way of quality issues and slow down production.

**Related HR concept.**

**Slow down Production:** The concept of slow down production is a type of employee’s strike. The Industrial Relations states that when the employee wants to show their dissatisfaction to the management but don’t want to go for strike they follow slow down strike. The impact of which will be understood after a particular time period

**Employee Recognition:** Human beings can be easily motivated by Rewards and recognition than that of money. In this case, also the employee is not satisfied even after all facilities just because of the reason that they are not recognized.



**Report on Case study on "Employee Recognition V/S Employee Equality"**

Timings: 2:20 pm to 3:10pm

Year/Semester: I/II

Subject Name: human resource management

Date: 06/07/2021

**ATTENDANCE SHEET**

S NO	REGD NO	Attendance
1	20Q7E0001	Attended
2	20Q7E0002	Attended
3	20Q7E0003	Attended
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**Report on Case study on “SWOT ANALYSIS”**

Timings: 2:20 pm to 3:10 pm

Year/Semester: II/I

Subject Name: **Strategic Management**

Date: 03/03/2021

**Case study: Swot Analysis**

**Starbucks**

A multinational chain of coffeehouses that is also a multi-billion dollar enterprise, Starbucks is a textbook corporate success story. The organization took the humble cup of coffee and transformed it into an addictive experience. However, can they make as much of an impact with most of their customers shopping online.

**Q .1** Explain the SWOT analysis for Starbucks:

Ans:

**Strengths**

- Loyal customers who are devoted to buying Starbucks products
- A wide selection of premium beverages and edibles
- Cool, urban vibe that appeals to most coffee drinkers
- Huge presence and a strong reputation around the world
- Continues to be a profitable venture

**Weaknesses**

- There are a lot of newer, cheaper options available on the local level in several countries
- The company is subjected to different government regulations and tax laws that exist in other nations
- It can be a challenge to procure coffee beans at competitive prices, especially from other countries
- The menu needs to change periodically to ensure customers don't tire of the brand



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### **Opportunities**

- The Asian markets are an untapped segment and prime for expansion
- Moving to online delivery apps can help reach a wider net of customers
- Direct marketing methods such as social media tie-ups and emailers can keep the customer aware of new products and discounts
- Use data analytics to observe the more popular, trending products and capitalize on them

### **Threats**

- Other multinational fast-food chains such as McDonald’s offer cheaper coffee
- The younger generation prefers healthier or vegan options for hot beverages
- Too many sugary drinks or salty foods can be considered a ‘health hazard’
- The lack of a strong digital presence can cause the brand to lose some of its value



**Report on Case study on "swot analysis"**

Timings: 2:20 pm to 3:10pm

Year/Semester: I I/I

Subject Name: strategic management

Date: 03/03/2021

**ATTENDANCE SHEET:**

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2	19Q71E0002	Absent
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121	19Q71E00C1	Absent



**Report on Case study on “successful entrepreneur”**

Timings: 2:20 pm to 3:10pm

Year/Semester: II/II

Subject Name: **innovation and entrepreneurship**

Date: 10/07/2021

**Case study: successful entrepreneur**

Ram and Rahul were two students studying hotel management course in a city college. They hailed from Kolkata a metropolitan city and Pune respectively. They became good friends during the course of their education. Ram hailed from an upper class family with his parents in influential Government jobs. Rahul hailed from a lower middle class family with his single means his mother depend on farming for their livelihood. They both shared a long ambition to become successful in their life working independently. both were intelligent and were creative compared to others and both were intent on starting a restaurant in one of their respective places by the name Khana Khazana. Ram was against the idea of Rahul starting her clinic in a Pune. He felt that people of pune already have so many options of restaurants that they won't explore new one. ram had a strong view that people of pune are more into fast food as majority of the population of pune are out-station students and the concept which they have for their restaurant which is homemade food won't be accepted by the population of pune. But rahul was strong in his view that because he crowd is youth and most are away from home so they will love to have homemade food.

**Q 1.** What are the characteristics of a good entrepreneur ram and rahul are missing because of which it is taking time for them to come to conclusion about the venture?

Ans: The characteristics which both are missing are as follow:

**Characteristics of Entrepreneur**

Facilitating Character

Self-Confidence

Work with Vision and Mission

High Degree of Endurance

Trouble Shooting Nature



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Initiative and Enterprising Personality

Goal Setter

Calculated Risk-Taking Ability

**Q 2.** This business is example of which type of entrepreneurs?

**Ans :**The case study is a classic example of business entrepreneurs. Business entrepreneurs are individuals who conceive an idea for a new product or service and then create a business to materialize their idea into reality. They tap both production and marketing resources in their search to develop a new business opportunity. They may set up a big establishment or a small business unit. Trading entrepreneur is one who undertakes trading activities and is not concerned with the manufacturing work. He identifies potential markets, stimulates demand for his product line and creates a desire and interest among buyers to go in for his product. He is engaged in both domestic and overseas trade.



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**Report on Case study on "successful entrepreneur"**

Timings: 2:20 pm to 3:10pm

Year/Semester: II/II

Subject Name: **innovation and entrepreneurship**

Date: 10/07/2021

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