Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING
The Society For Collegiate Education
Affiliated to Andhra University, Approved by AICTE
52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.
Ph : Off : 0891-2703293, 2703296
Email : principal@lbce.edu.in   Website : www.lbce.edu.in

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES
Innovative Teaching Methods

PROGRAM : B.Tech ECE
CLASS AND SEMESTER : I B.Tech., II-Sem., ECE, Section-B
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : English
COURSE INSTRUCTOR : Dr V Radha Devi
DATE : 02 July 2024
TEACHING METHOD : Activity Based Teaching
TOPIC : Communication Skills

Team Building Activities

Improving students' communication skills can improve productivity and their success at all levels. It also allows them to enhance and showcase their talents. Team-building activities are a fun and educational way for the students to improve team-wide communication, although identifying the right activity can take some time and research. Teambuilding activities have been conducted to the first-year ECE B students to develop rapport and interpersonal skills, the activities are namely,
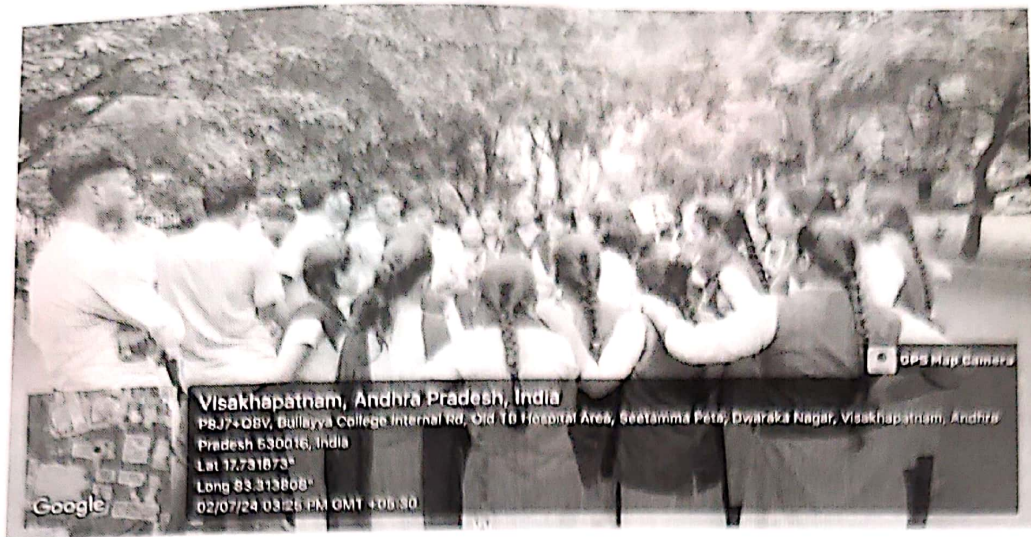
1. Seven Up
2. Wall, Gun, Rabbit
3. Reverse the circle
4. Blind fold

The students actively participated in the activities and they could learn how individuals think, communicate and solve problems. Team-building activities are both educational as well as fun.
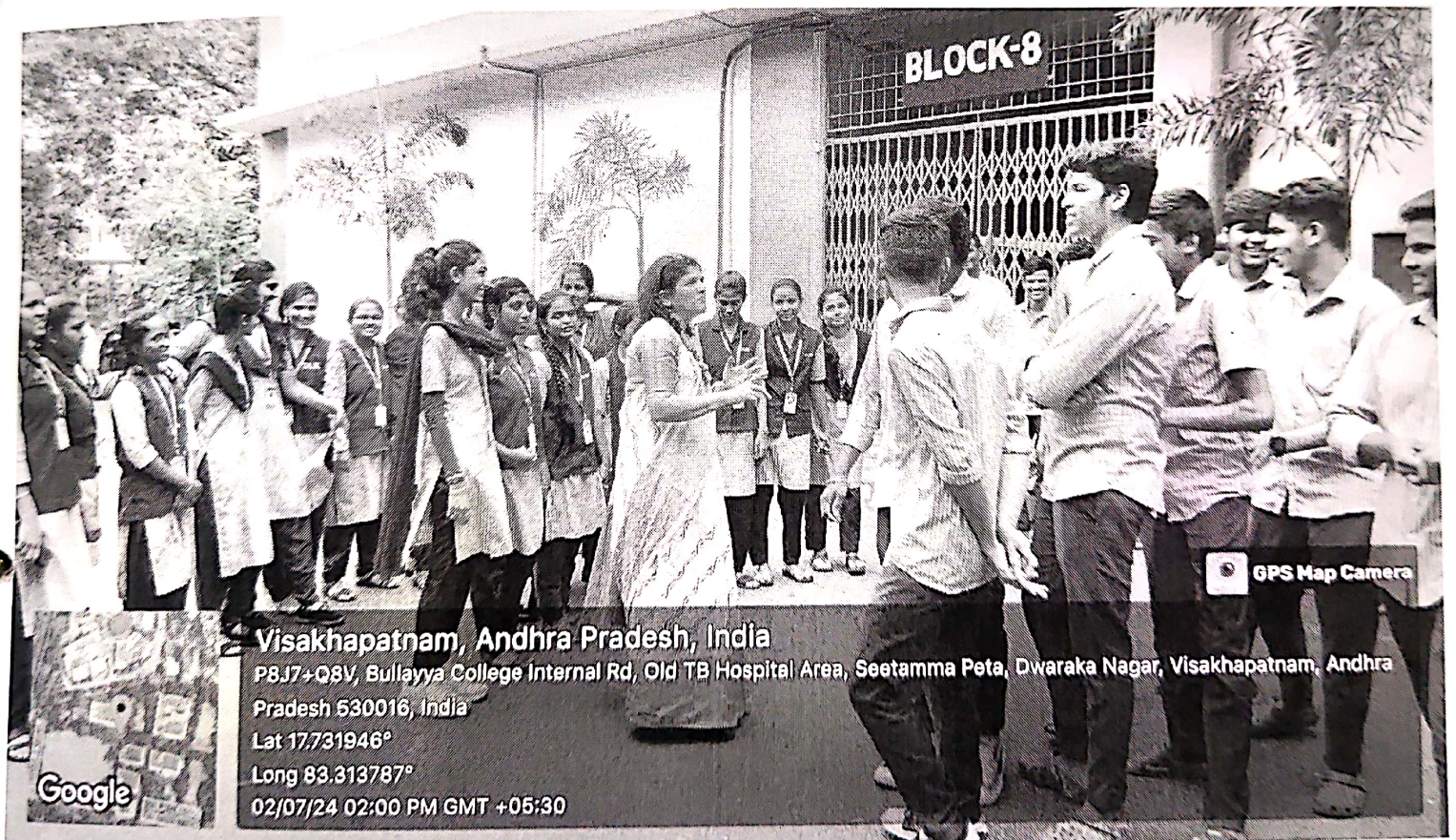
The advantages of these activities are:

1. Enhances team spirit
2. Improves effective communication
3. Develops leadership skills
4. Improves creativity
5. Provides platform to showcase talent
6. Get engaged in work and focus on goals
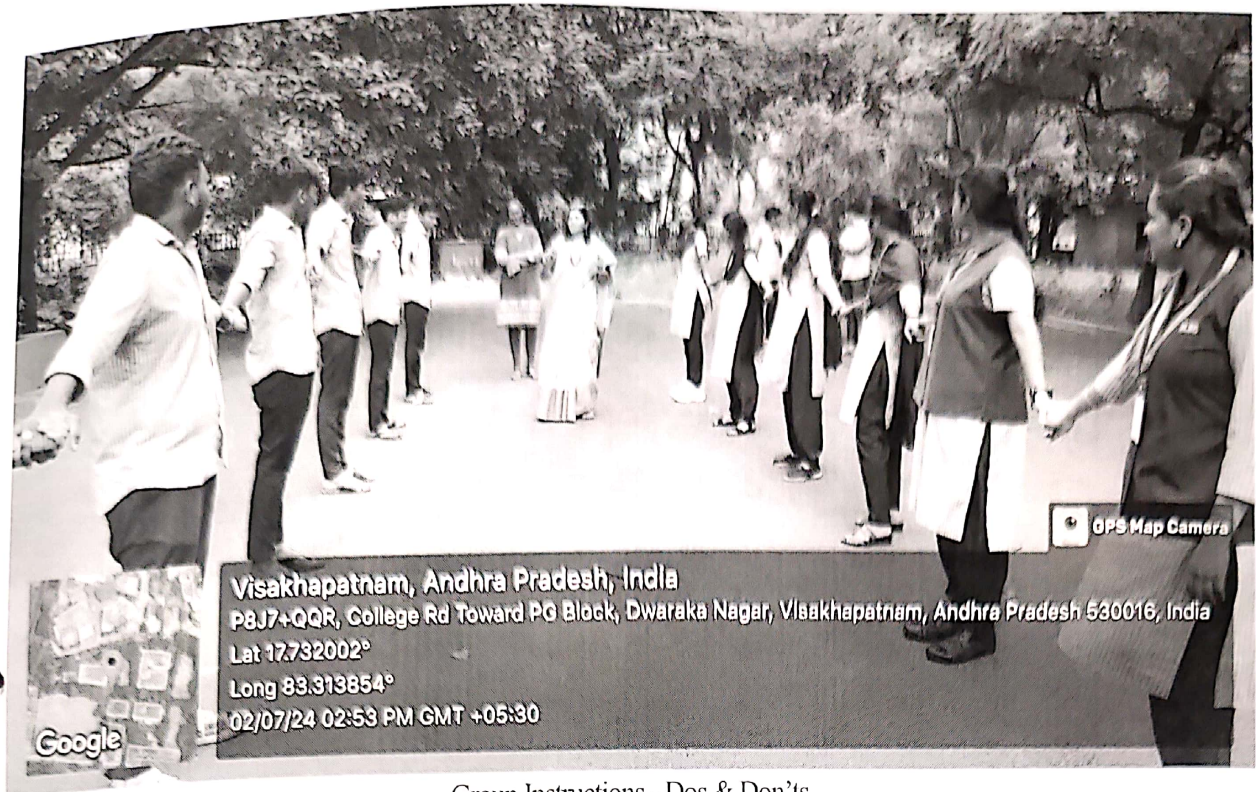7. Problem Solving skills
8. Conflict Management
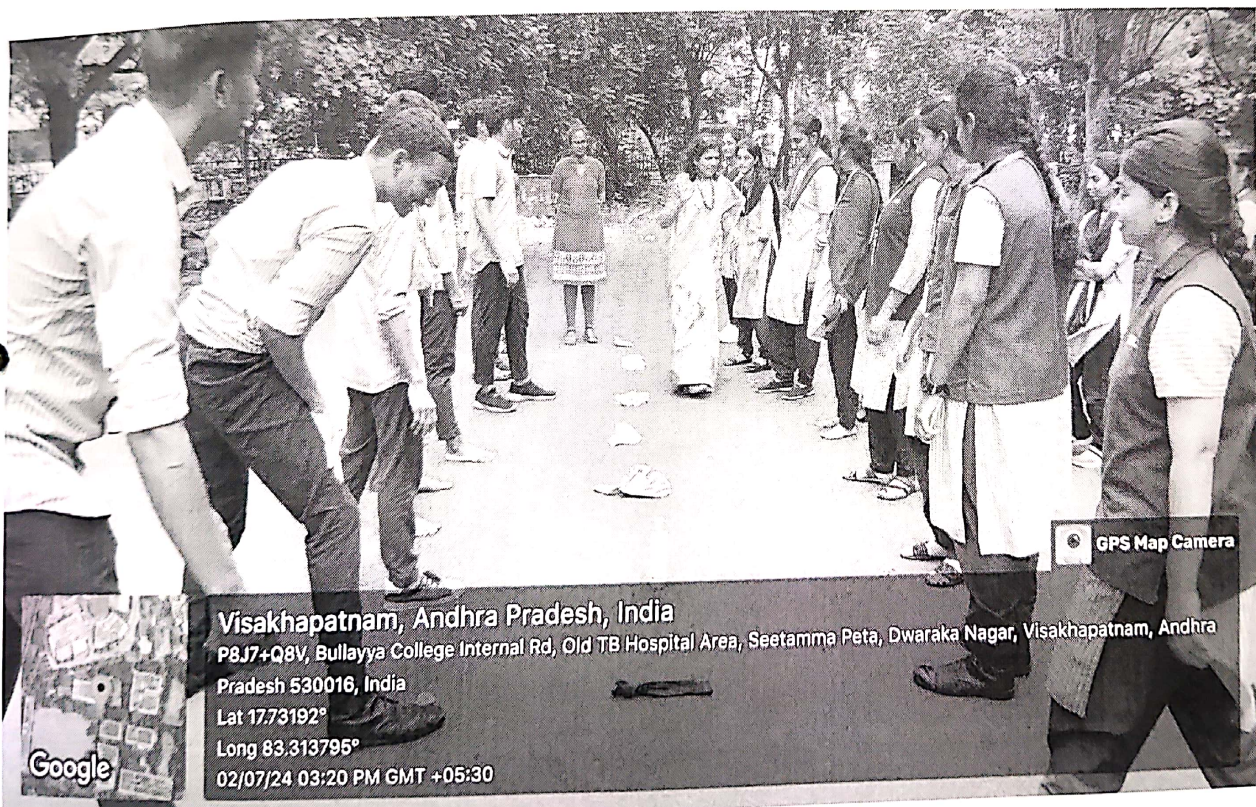
Instructions being given to the students
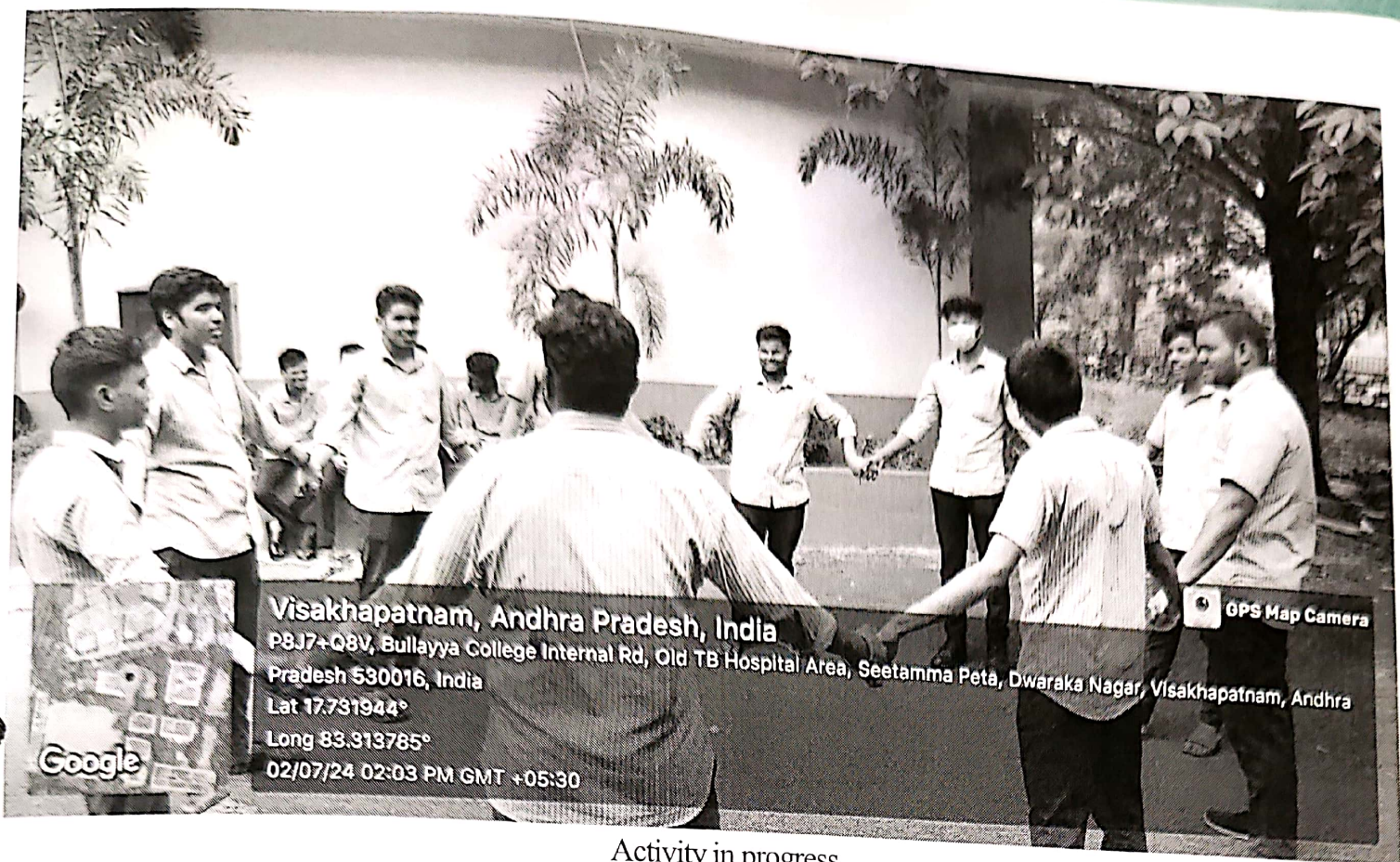

Divisions of groups

Visakhapatnam, Andhra Pradesh, India
P8J7+QQR, College Rd Toward PG Block, Dwaraka Nagar, Visakhapatnam, Andhra Pradesh 530016, India
Lat 17.732002°
Long 83.313854°
02/07/24 02:53 PM GMT +05:30

Group Instructions - Dos & Don'ts

Visakhapatnam, Andhra Pradesh, India
P8J7+Q8V, Bullayya College Internal Rd, Old TB Hospital Area, Seetamma Peta, Dwaraka Nagar, Visakhapatnam, Andhra Pradesh 530016, India
Lat 17.73192°
Long 83.313795°
02/07/24 03:20 PM GMT +05:30

Activity in progress

Visakhapatnam, Andhra Pradesh, India
P8J7+Q8V, Bullayya College Internal Rd, Old TB Hospital Area, Seetamma Peta, Dwaraka Nagar, Visakhapatnam, Andhra
Pradesh 530016, India
Lat 17.731944°
Long 83.313785°
02/07/24 02:03 PM GMT +05:30

Activity in progress

Visakhapatnam, Andhra Pradesh, India
P8J7+Q8V, Bullayya College Internal Rd, Old TB Hospital Area, Seetamma Peta, Dwaraka Nagar, Visakhapatnam, Andhra
Pradesh 530016, India
Lat 17.731942°
Long 83.31375°
02/07/24 02:02 PM GMT +05:30
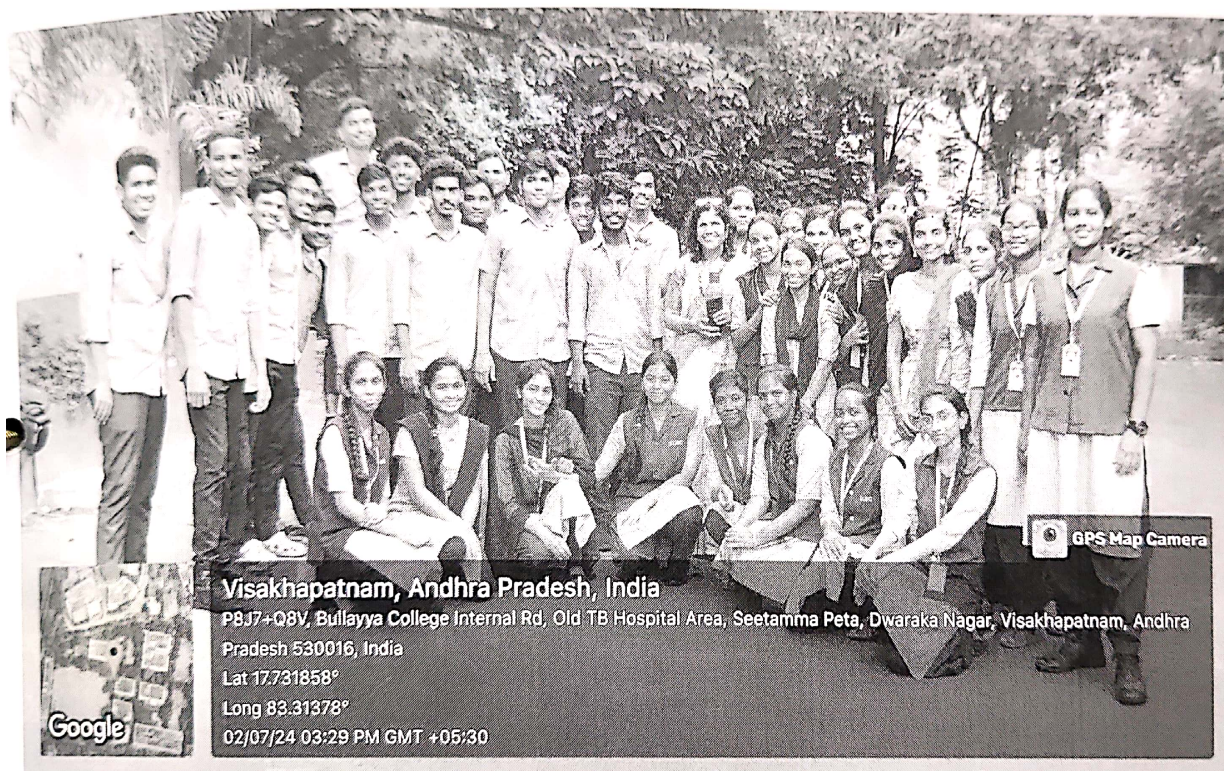
Activity in progress

Winning team in excitement

Class Group Photograph

Course Instructor

Course Coordinator

HOD

Head of the Department
Dept.of Basic Sciences & Humanities
Dr. Lankapalli Bullayya College of Engineering
R. apuvanipalem, Visakhapatr   0013

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DEPARTMENT OF CIVIL ENGINEERING

Innovative Teaching Methods

PROGRAM   : B.Tech CIVIL
CLASS   : III B.Tech II-Sem., CIVIL
ACADEMIC YEAR   : 2023-2024
COURSE NAME & CODE : Engineering Economics Estimation and Costing; CV3202
COURSE INSTRUCTOR   : Dr. Arunima.M
Name of the Method   : Experimental based Learning TLM 6

Topic: Reinforcement Details of the Water Tank

Experiential based learning is done by the 3rd year students which includes estimating of reinforcement of steel in water tank constructed in the bullayya campus
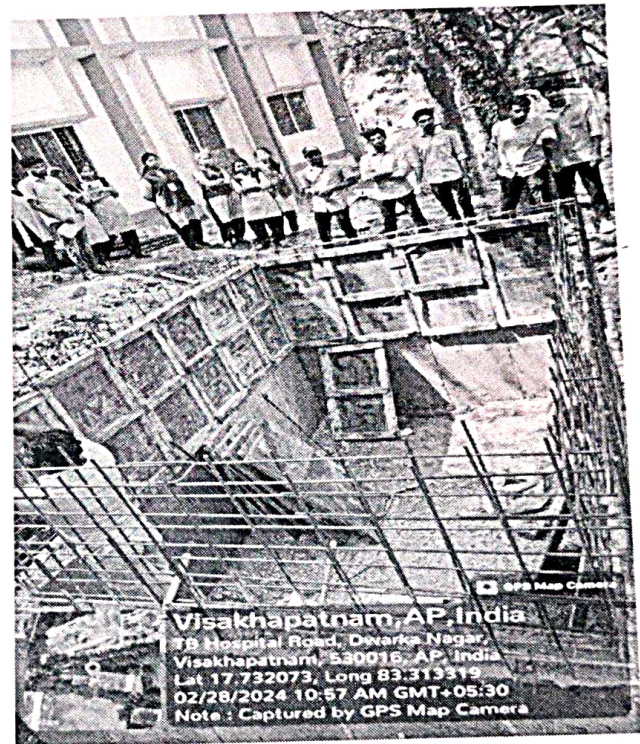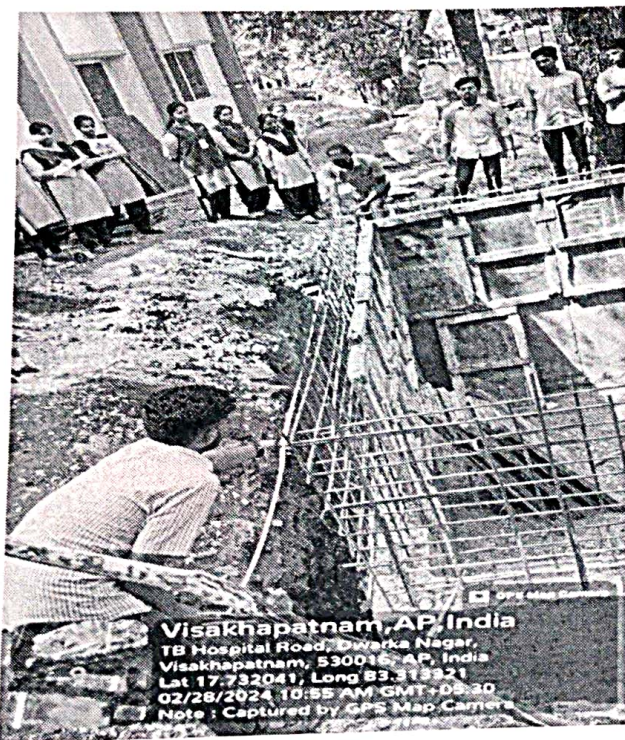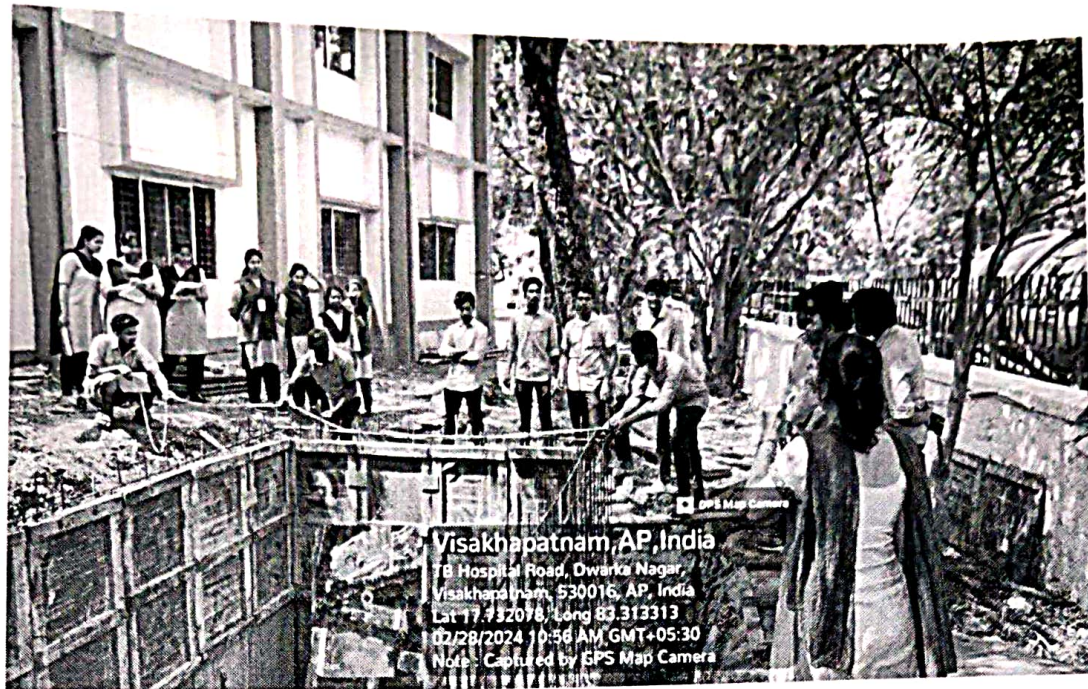
Following are the reinforcement details of the water tank surveyed by the students of 3rd B.Tech Civil

Length (L) = 4.3 m

Breadth(W) = 2.8 m

Depth (or) height (H) = 2.745 m

Diameter of the rod= 12 mm = 0.012 m

Wall Thickness (T) = 150 mm = 0.15 m

Earthwork in Excavation = 5 m x 4 m

1) <u>Volume of Water Tank</u> :

Volume = LxBxH

$\qquad$ = 4.3x2.8x2.745

$\qquad$ = 33.04 m³

2) <u>Wall Area</u> :

Wall area = 2(L+W) x H x T

$\qquad$ = 2(4.3+2.8) x 2.745 x 0.15

$\qquad$ = 5.846 m³

3) <u>Reinforcement Size and Spacing</u> :

i) Vertical Bars $\qquad$ = 150 no.s

$\quad$ ii) Horizontal Bars = 96 no.s

$\quad$ iii) Bent-up Bars $\qquad$ = 48 no.s

$\quad$ iv) Anchor Bars $\qquad$ = 44 no.s

$\quad$ v) Spacing $\qquad$ = 0.23 m

Course Instructor

HOD

Head of the Dept.
Dept. of Civil Engineering
Dr.Lankapalli Bullayya College of Engineering
Resapuvanipalem, Visakhapatnam-530013,A.P

Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Innovative Teaching Methods

PROGRAM : B.Tech EEE
CLASS AND SEMESTER : II B.Tech., I-Sem., EEE,
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : Electrical Machines-I, EE2104
COURSE INSTRUCTOR : Mr. Ch.Arun Kumar
Name of the Method : Experiential Learning
Date : 21-10-2023

Mr.Ch.Arun Kumar, Assistant professor, EEE, explaining about characteristics of DC shunt generator

The characteristics of DC generators include no load and load characteristics. The no load characteristics are follow a linear path and gets saturated. The load characteristics are drooping because of armature reaction and armature resistance voltage drop. These characteristics are experimentally determined and explained by the faculty to II/IV EEE students in the electrical machines lab and later the students were asked to repeat the same.

Course Instructor   **Class coordinator**   **HOD**

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Innovative Teaching Methods

PROGRAM : B.Tech EEE
CLASS AND SEMESTER : II B.Tech., II-Sem., EEE,
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : Electrical Machines-II, EE2203
COURSE INSTRUCTOR : Mr. Ch.Arun Kumar
Name of the Method : Experiential Learning
Date : 15-04-2024

Mr.Ch.Arun Kumar, Assistant professor, EEE, explaining about voltage regulation of an alternator

The voltage regulation of an alternator or synchronous generator is defined as the rise in the terminal voltage when the load is decreased from full-load rated value to zero. The speed and field current of the alternator remain constant. It can be determined experimentally by EMF, MMF and ZPF method. The faculty has explained the methods of EMF and MMF methods and demonstrated the experiments to the students of II/IV EEE.

Course Instructor   Class Coordinator   HOD
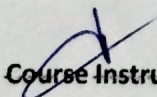
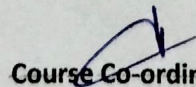## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Program	: B.Tech CSE
Class And Semester	: IV B.Tech., I-Sem., CSE-A
Academic Year	: 2023-2024
Course Name & Code	: Web Technologies, CS4105
Course Instructor	: G.Sandhya
Teaching Method	: Experiential Learning
Date	: 13-10-2023
Topic	: Web page creation
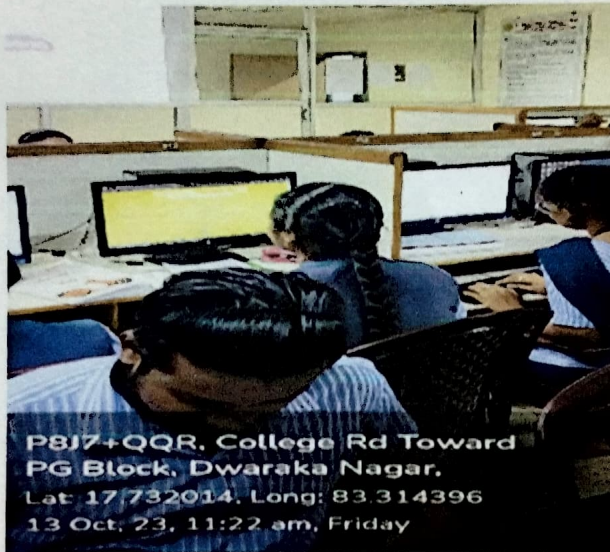
P8J7+QQR, College Rd Toward
PG Block, Dwaraka Nagar.
Lat 17.732014, Long: 83.314396
13 Oct. 23, 11:22 am, Friday

The Students are learning by experience on how to create dynamic web pages in the presence of instructor. Students gain idea on creating websites and real time applications.

Course Instructor   Course Co-ordinator   HOD

Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

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Department Of Electronics And Communication

Student Centric Methods

Program	: B.Tech ECE
Class and Semester	: II B.Tech., I-Sem., ECE
Academic Year	: 2023-2024
Course Name & Code	: ANALOG COMMUNICATIONS, EC-2103
Course Instructor	: S. SRAVANI, Assistant Professor
Teaching Method	: Experimental based Learning
Date	: 23-11-2023
Topic	: SSB MODULATION AND DEMODULATION

Experimental based Learning

Single-Sideband (SSB) modulation and demodulation are essential topics in communication systems, especially for efficient use of bandwidth and power. Here's a basic overview of how you might conduct an SSB modulation and demodulation experiment:

1. Experiment Overview

Objective: To understand and demonstrate the principles of Single-Sideband (SSB) modulation and demodulation.

Equipment Required:

- Signal generator (for producing the modulating signal)
- Carrier generator (for producing the carrier signal)
- SSB modulator
- SSB demodulator
- Oscilloscope or spectrum analyzer (for observing signals)
- Audio equipment (for input and output signal observation)

2. SSB Modulation

Modulation Process:

1. **Signal Preparation:**
   - Generate a message signal (audio signal) using the signal generator.
   - Generate a carrier signal using the carrier generator.
2. **Mixing:**
   - The message signal and carrier signal are combined in the SSB modulator.
   - SSB modulation suppresses one of the sidebands and reduces the carrier frequency, conserving bandwidth and power.
3. **Filtering:**
   - The modulated signal is filtered to remove the unwanted sideband (either the upper sideband or lower sideband) and possibly the carrier frequency, depending on whether you're using SSB-SC (Single-Sideband Suppressed Carrier) or SSB-FC (Single-Sideband with Carrier).

Measurement:

- Use the oscilloscope or spectrum analyzer to observe the modulated signal and verify that only one sideband is present.

3. SSB Demodulation

Demodulation Process:

1. **Receive the Modulated Signal:**
   - The SSB modulated signal is fed into the SSB demodulator.
2. **Carrier Restoration:**
   - In the demodulator, the original carrier frequency (or a reference signal) is restored to recover the original message signal. This step might involve some form of automatic gain control or phase-locked loop to properly synchronize.

3. **Extraction:**
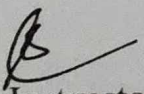   o The message signal is extracted from the demodulated output.

Measurement:

- Observe the recovered message signal on the oscilloscope or listen to it using audio equipment to ensure the signal is correctly demodulated.
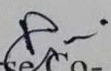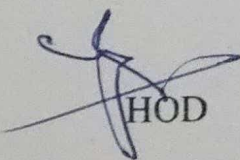
4. Analysis and Discussion

- **Efficiency:** Discuss how SSB modulation reduces bandwidth and power compared to AM (Amplitude Modulation) and why this is advantageous for communication systems.
- **Sidebands:** Analyze the effects of suppressing one of the sidebands and how it impacts the fidelity of the recovered signal.
- **Carrier Frequency:** Examine how different approaches to handling the carrier frequency affect the demodulation process.

5. Conclusion

Summarize the results of the experiment, including how well the SSB modulation and demodulation processes worked and any observations regarding the signal quality and efficiency.

Course Instructor   Course Co- Ordinator   HOD

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

Student Centric Methods

Program   : B.Tech ECE

Class and Semester   : II BTech., I-Sem., ECE

Academic Year   : 2023-2024

Course Name & Code: SIGNALS AND SYSTEMS -EC 2104

Course Instructor   : Mr. P. SAHITYA KIRAN, Assistant Professor

Teaching Method   : Experimental Learning

Date   : 04/11/23

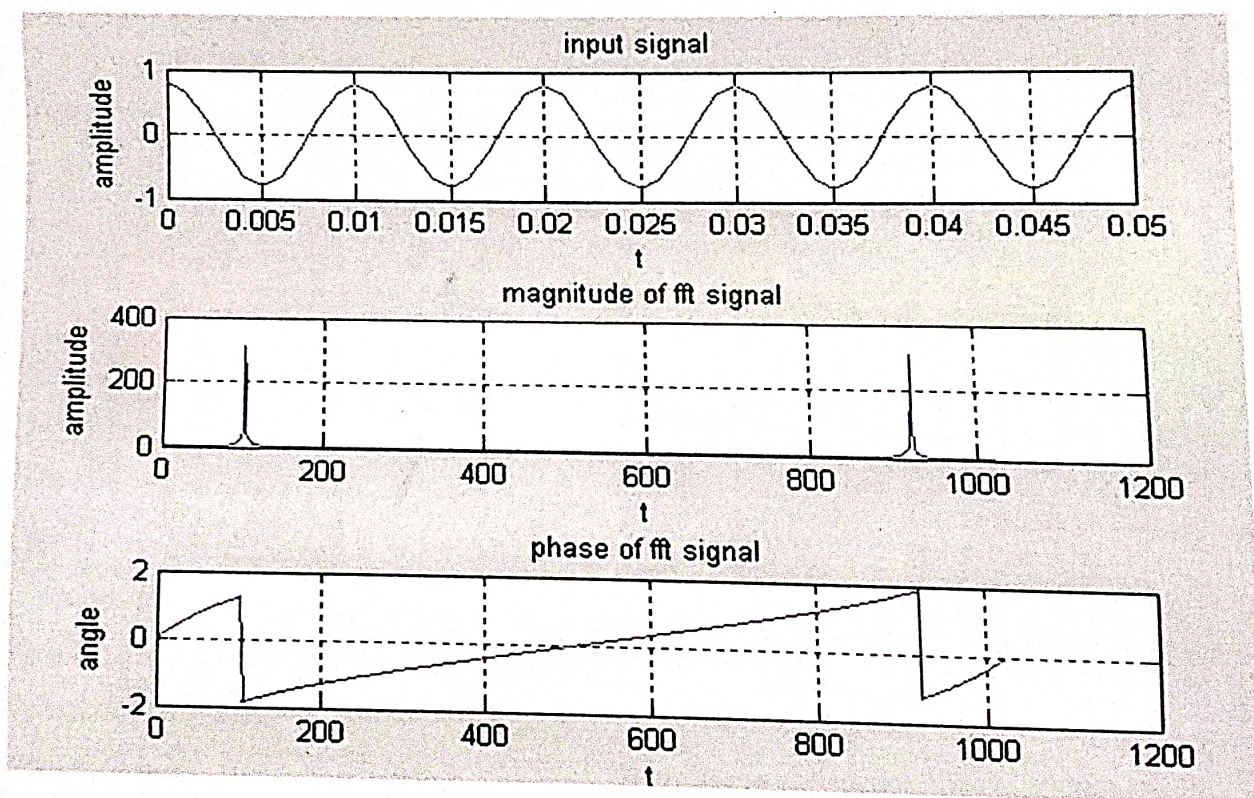**TOPIC:** **Fourier Transform of a given signal and plotting its magnitude and phase spectrum**

The Fourier transform as follows. Suppose that f is a function which is zero outside of some interval $[-L/2, L/2]$. Then for any $T \geq L$ we may expand f in a Fourier series on the interval $[-T/2, T/2]$, where the "amount" of the wave $e^{2\pi i n x/T}$ in the Fourier series of f is given by

By definition Fourier Transform of signal $f(t)$ is defined as

$$F(w) = \int_{-\infty}^{\infty} f(t)e^{-jwt}dt$$

Inverse Fourier Transform of signal $F(w)$ is defined as

$$f(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} F(w)e^{jwt}dw$$

Course-Instructor   Course-Coordinator   HOD

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT CENTRIC METHODS

PROGRAM	: B.TECH ECE
CLASSANDSEMESTER	: II BTECH., II-SEM., ECE-A
ACADEMICYEAR	: 2023-2024
COURSENAME&CODE	: LINEAR INTEGRATED CIRCUIT APPLICATIONS -EC 2207
COURSEINSTRUCTOR	: MR. B. SANGEETH KUMAR, ASSISTANT PROFESSOR
TEACHINGMETHOD	: EXPERIMENTAL LEARNING
DATE	: 22-08-2024

TOPIC: ACTIVE FILTERS

Visakhapatnam, Andhra Pradesh, India
P8J7+QQR, College Rd Toward PG Block, Dwaraka Nagar, Visakhapatnam, Andhra
Pradesh 530016, India
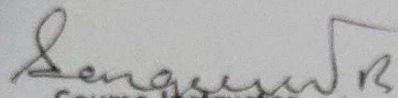Lat 17.731846°
Long 83.31441°
22/08/24 11:35 AM GMT +05:30

NAME OF THE EXPERIMENT: ACTIVE HIGH PASS SECOND ORDER FILTER
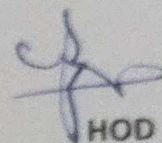**NAME OF THE STUDENTS: PATNALA YASASRI, PEDIREDLA SAI SUSHMA, PEDIREDLA SARANYA,**
REGISTER NO: 322136412074, 322136412075, 322136412075

eriential learning (EL) is a teaching method that involves students actively engaging with urse material through hands-on experiences and reflection. Our Students involves in the Experimental Learning Process in which the Experiment from LINEAR INTEGRATED AND PULSE AND DIGITAL CIRCUITS LAB-EC 2207 of Second order Active High Pass Filter and Second Order Active Low Pass Filter to draw the frequency response.

Course-Instructor

Course-Coordinator

HOD

# Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES
Innovative Teaching Methods

PROGRAM	: B.Tech CSE
CLASS AND SEMESTER	: I B.Tech., I-Sem., CSE, Section-B
ACADEMIC YEAR	: 2023-2024
COURSE NAME & CODE	: English
COURSE INSTRUCTOR	: Dr V Radha Devi
DATE	: 14 November 2023
TEACHING METHOD	: Participatory Learning
TOPIC	: Dialogue writing

Dialogue Writing-Role Play: The class was divided into pairs. Different contexts were given to each pair. The students were given five minutes preparation time for writing the dialogues. The pairs actively participated in the role play by enacting and presenting the dialogues of the characters assigned to them. The session helped the students to enhance their speaking skills.

GPS Map Camera
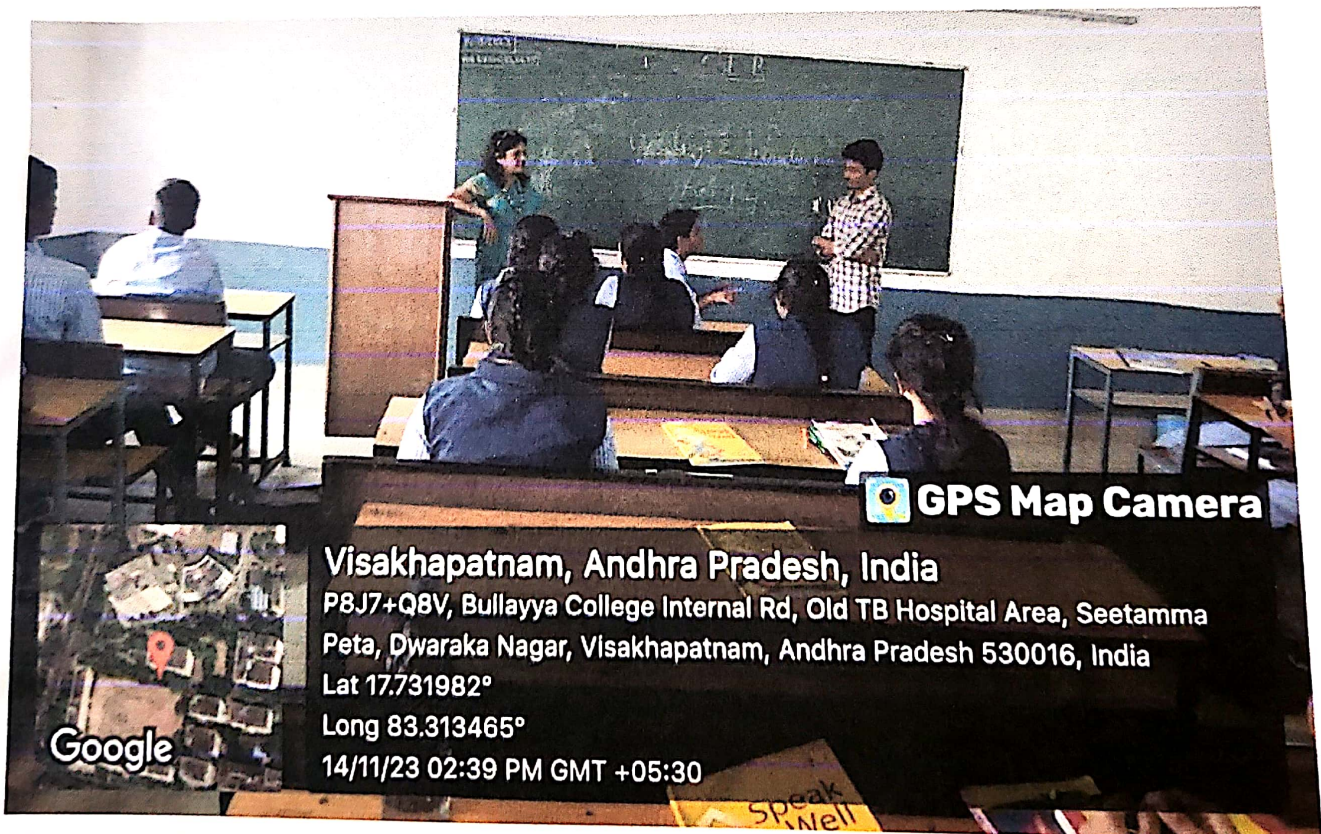
Visakhapatnam, Andhra Pradesh, India
P8J7+Q8V, Bullayya College Internal Rd, Old TB Hospital Area, Seetamma Peta, Dwaraka Nagar, Visakhapatnam, Andhra Pradesh 530016, India
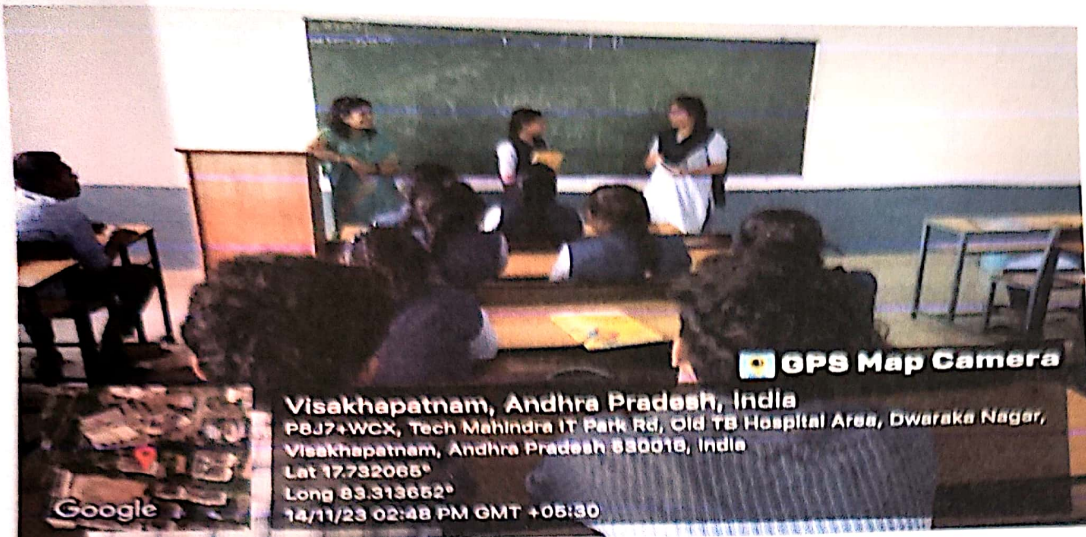Lat 17.731982°
Long 83.313465°
14/11/23 02:39 PM GMT +05:30

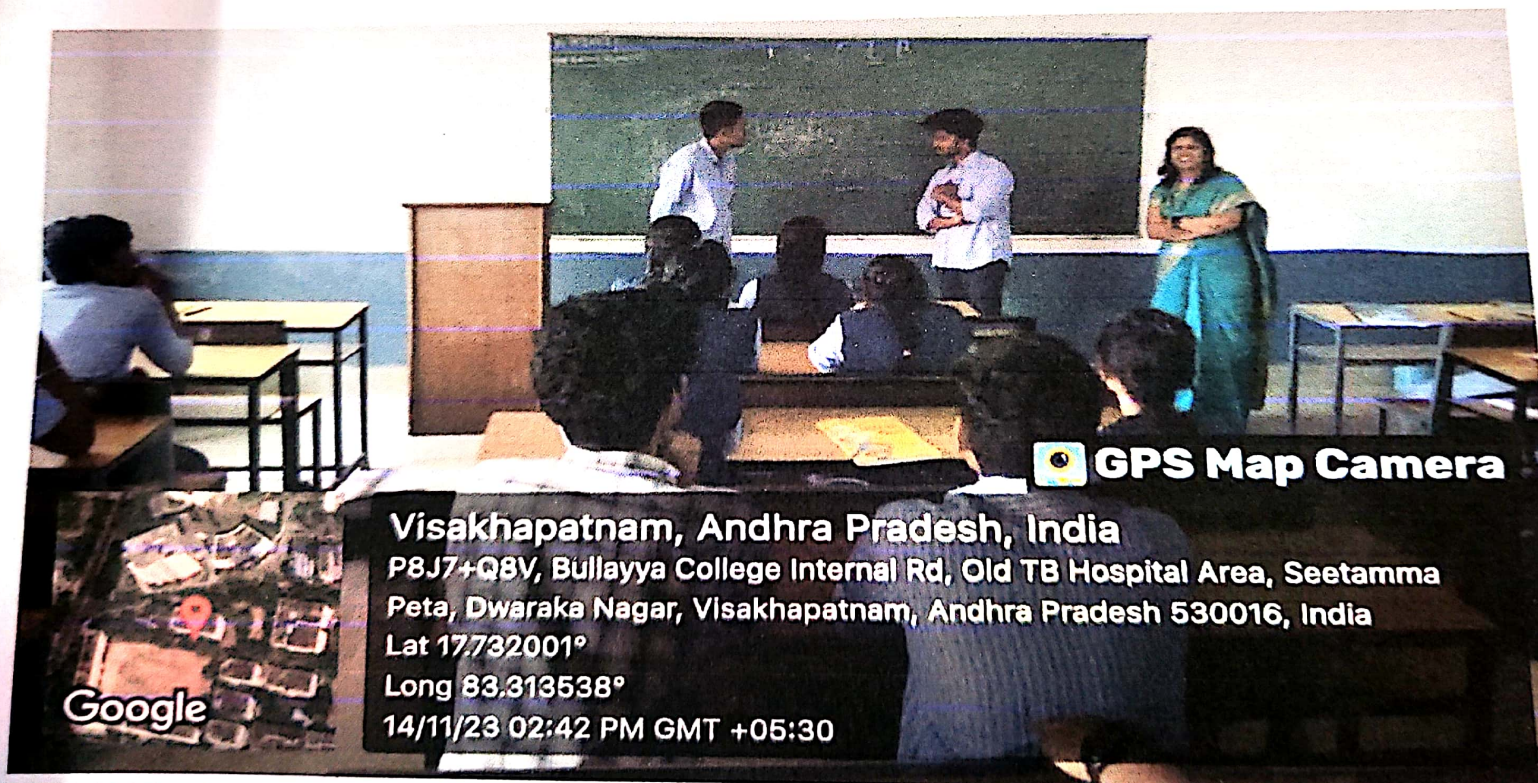323136410087   PASALAPUDI SINJON RAJ,   323136410069 MANDAPAKA LAXMAN

32316410070 M Bhargavi, 323136410097 P Sree Haritha

32316410073 M VARAHA DINESH GOPAL, 323136410090 PENUMATHSA VAMSI VARMA

Instructor

Course Coordinator

HOD

Head of the Department

Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

Innovative Teaching Methods

PROGRAM   : B.Tech

CLASS AND SEMESTER   : I B.Tech., I-Sem.,CSE-B

ACADEMIC YEAR   : 2023-2024

COURSE NAME & CODE   : GREEN CHEMISTRY& 1102

COURSE INSTRUCTOR   : Mrs N.Swathi

NAME OF THE METHOD   : Participatory learning

TOPIC   :Corrosion

DATE   :02-01-2024
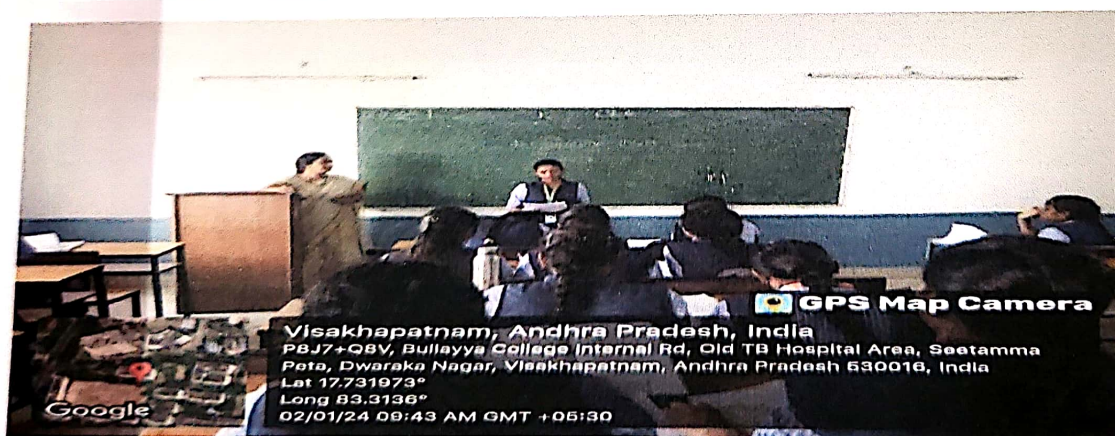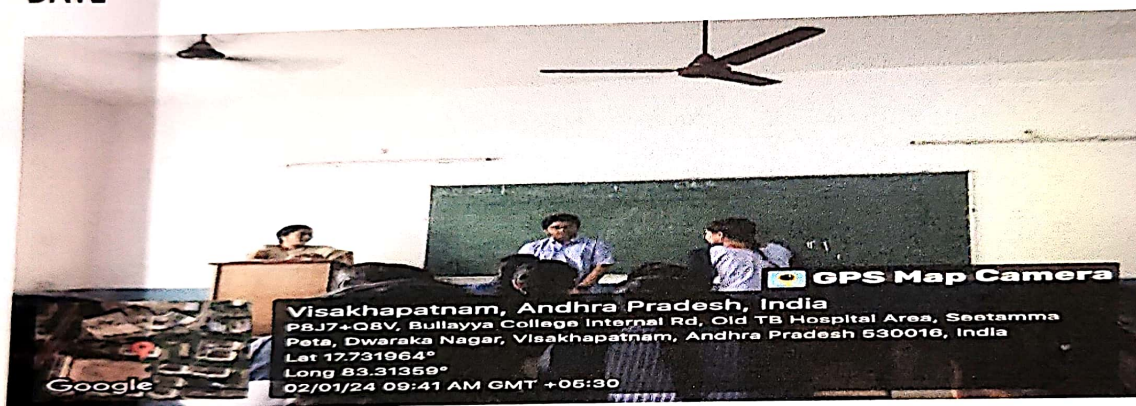
Students V.Enosh Kumar,Redg No: 323136410128 & P. Mrudula ,Redg No:323136410088 **explaining** Wet and Dry Corrosion.

Course Instructor

Course Coordinator

HOD

Head of the Department
Dept.of Basic Sciences & Humanities
Dr. Lankapalli Bullayya College of Engineering
Resapuvanipalem, Visakhapatnam-530013

DEPARTMENT OF CIVIL ENGINEERING

Innovative Teaching Methods

PROGRAM	: B.Tech CIVIL
CLASS AND SEMESTER	: III B.Tech., II-Sem
ACADEMIC YEAR	: 2023-2024
COURSE NAME & CODE	: Solid Waste Management CV3205
COURSE INSTRUCTOR	: D V Vara Manasa
DATE	: 24-01-2024
Name of the Method	: TLM 4 (Participatory learning)

Name of the topic: Waste Segregation

Waste sorting is the process by which waste is separated into different elements. Waste sorting can occur manually at the household and collected through curbside collection schemes, or automatically separated in materials recovery facilities or mechanical biological treatment systems.

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Ph : Off : 0891-2703293, 2703296
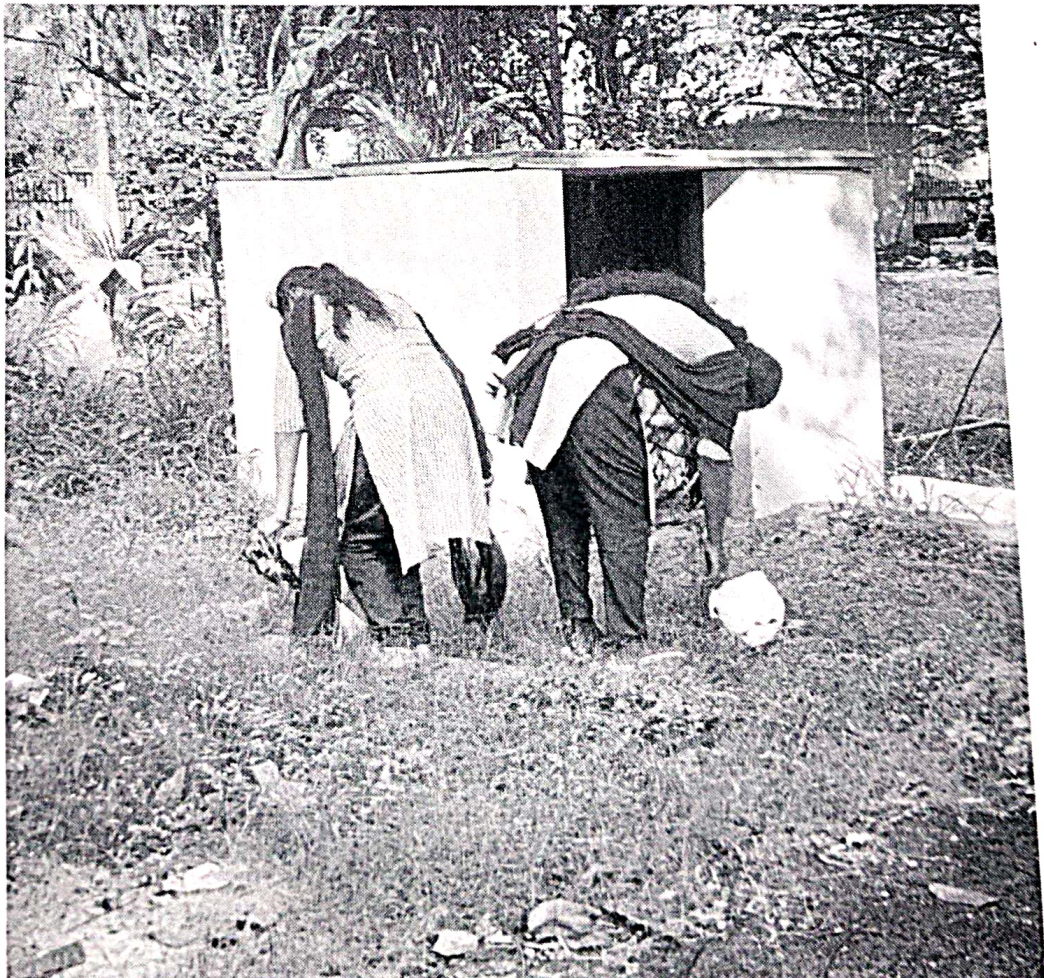Email : principal@lbce.edu.in   Website : www.lbce.edu.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT CENTRIC METHODS

PROGRAM   : B.TECH ECE
CLASSANDSEMESTER   : II BTECH., II-SEM., ECE-A
ACADEMICYEAR   : 2023-2024
COURSENAME&CODE   : LINEAR INTEGRATED CIRCUIT APPLICATIONS -EC 2204
COURSEINSTRUCTOR   : MR. B. SANGEETH KUMAR, ASSISTANT PROFESSOR
TEACHINGMETHOD   : PARTICIPATIVE LEARNING
DATE   : 18-07-2024

TOPIC: ACTIVE FILTERS

NAME OF THE STUDENTS: MANGIPUDI AKHILESWARI, DEESETTY B LAKSHMI SRAVYA
REGISTER NO: 322136412059, 322136412026

Our Students involves the learner actively in the learning process in which the Analysis of Active filers and its classifications. Active Low Pass Filter of First Order and Second Order Active Low Pass Filter working Principle and its Frequency Response.

Course-Instructor .   Course-Coordinator   HOD

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES
Innovative Teaching Methods

PROGRAM   : I B. Tech
CLASS AND SEMESTER   : CSE-A SEM- 1
ACADEMIC YEAR   : 2023-2024
COURSE NAME AND CODE   : GREEN CHEMISTRY
DATE   : 29-11-2023
TEACHING METHOD   : Teaching Using LCD Projector
TOPIC   : Batteries

The topic was taught using a PPT by providing easy understanding, in construction of batteries. The students could understand the concept and importance. They can easily write practice test at the end of the class.
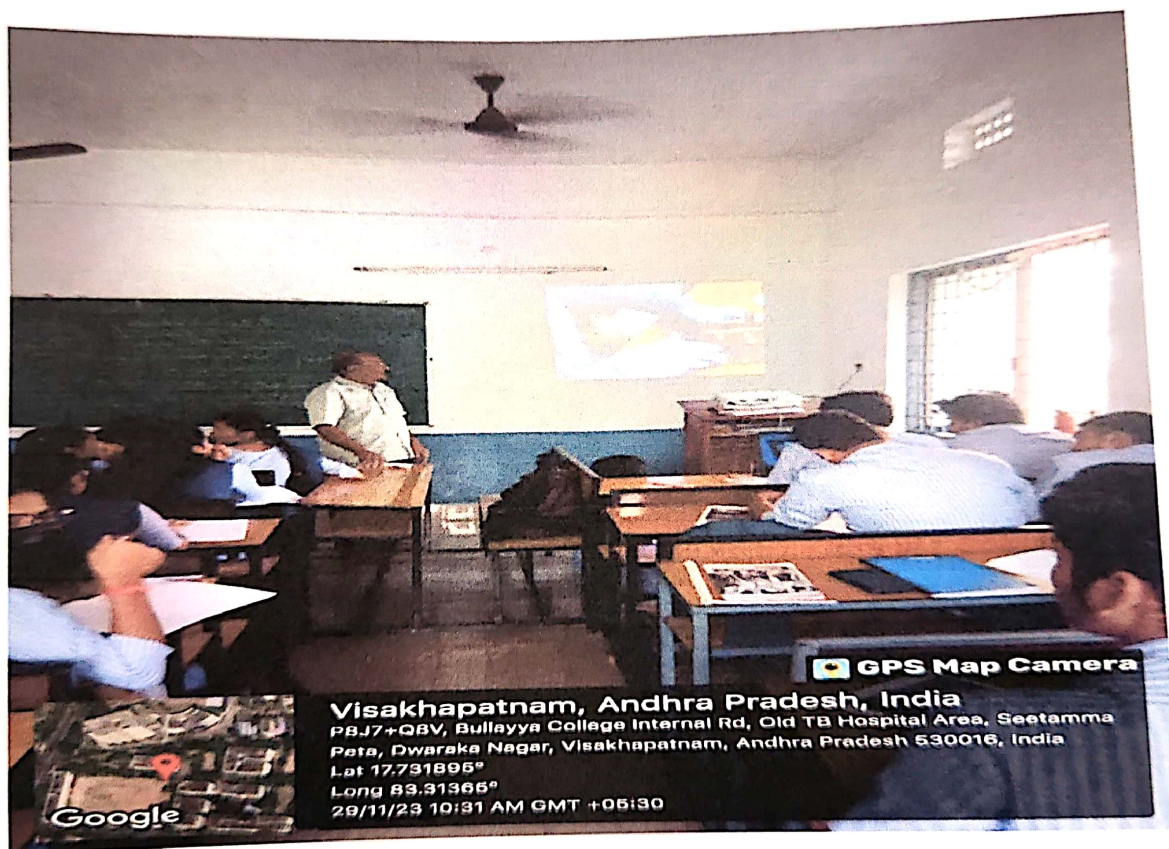
Prof. G. Lokeswara Reddy is delivering a lecture on construction of batteries.

Course Instructor   Course Coordinator   HOD

Head of the Department
Dept.of Basic Sciences & Humanities
Dr. Lankapalli Bullayya College of Engineering
Resapuvanipalem, Visakhapatnam-53001

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

PROGRAM : I/IV B.Tech
CLASS and Semester : IB.Tech., I-Sem., CSE , Section-B
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : MATHEMATICS-I, CS1101
COURSE INSTRUCTOR : Dr G V Vijayalakshmi
NAME OF THE METOD : ICT TOOLS(LCD PROJECTOR)
DATE : 9-12-2023
TOPIC : Evaluation of Double integrals in polar coordinates

Double integrals are used to calculate the area of a region, the volume under a surface, and the average value of a function of two variables over a rectangular region

Class Instructor

Class Coordinator

HOD
Head of the Department
Dept.of Basic Sciences & Human
Dr. Lankapalli Bullayya College of Engin
F epuvanipalem, Visakhapatnam-5

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New Resapuvani Palem, Visakhapatnam

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Innovative Teaching Methods

PROGRAM	: B.Tech EEE
CLASS AND SEMESTER	: III B.Tech., I-Sem., EEE,
ACADEMIC YEAR	: 2023-2024
COURSE NAME & CODE	: Power systems-I
COURSE INSTRUCTOR	: Mr. Ch.Ravi Kumar
Name of the Method	: LCD Projector
Date	: 24-07-2023
Topic	: Functions of Different components of Hydro- Electric power plant

Visakhapatnam, Andhra Pradesh, India
P8J7+QQR, College Rd Toward PG Block, Dwaraka Nagar, Visakhapatnam, Andhra Pradesh 530016, India
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Long 83.314458°
24/07/23 02:23 PM GMT +05:30
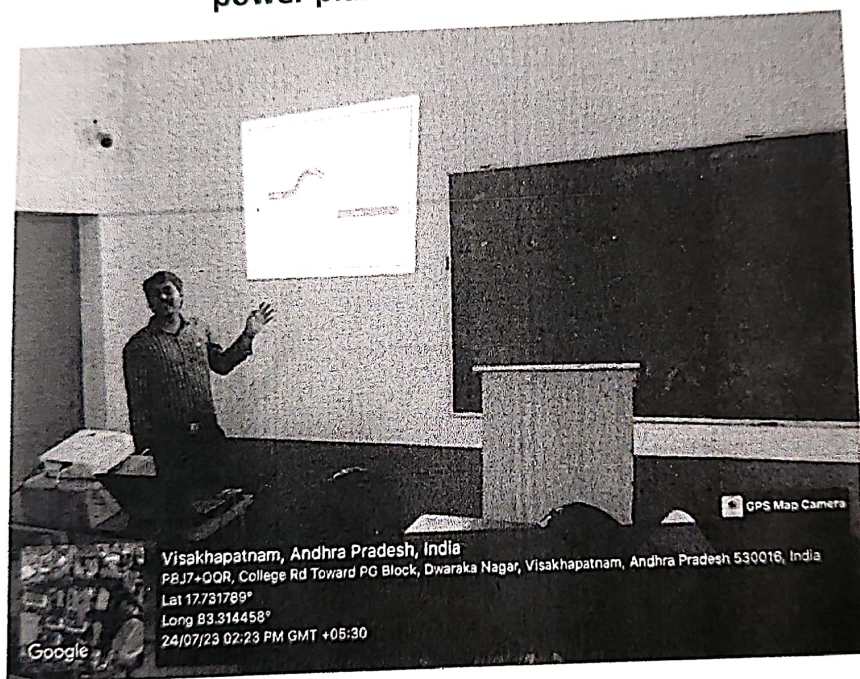
Mr. Ch.Ravi Kumar- Explaining about Functions of various components of Hydro- Electric power plant

Functions of Different components of Hydro- Electric power plant:
Hydroelectric power plants, also known as water power plants, use the potential energy of water stored behind a dam to generate electricity. The main components of a hydroelectric power plant include: **Dam or reservoir:** Stores water, **Penstock:** A closed canal that guides water from the reservoir to the turbine inlet nozzles, **Turbine:** Converts the kinetic energy of moving water into rotational motion, **Generator:** An electrical machine that converts the rotational motion of the turbine into electrical energy

Course Instructor   Class Coordinator   HOD

DR. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Program	: B.Tech CSE
Class And Semester	: III B.Tech., II-Sem., CSE-B
Academic Year	: 2023 - 2024
Course Name & Code	: Data Warehousing & Data Mining &3.2.2
Course Instructor	: Dr. K. ANURADHA
Teaching Method	: LCD PROJECTOR
Date	: 9 – 2 – 24
Topic	: KDD PROCESS

Description of the Topic: The main objective of the KDD process is to extract information from data in the context of large databases. It does this by using Data Mining algorithms to identify what is deemed knowledge.

Course Instructor   **Course Co-ordinator**   **HOD**

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

PROGRAM : B.Tech CSE
CLASS and Semester : III B.Tech II-Sem CSE Section-A
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : Object Oriented Software Engineering
COURSE INSTRUCTOR : K.N.Satya Chitra
TEACHING METHOD: LCD Projector – TLM2
TOPIC: Nature and Characteristics of Software
Date: 19-12-2023

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Toward PG Block, Dwaraka
Lat: 17.732018, Long: 83.314430
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oftware is:
) Instructions (computer programs) that when executed provide desired features, function, and performance;
2) Data structures that enable the programs to adequately manipulate information, and
3) Document that describes the operation and use of the programs.

haracteristics of Software

- Software is developed or engineered, it is not manufactured in the classical sense.

- Software does not wear out. However it deteriorates due to change.

k.NShit
Course Instructor
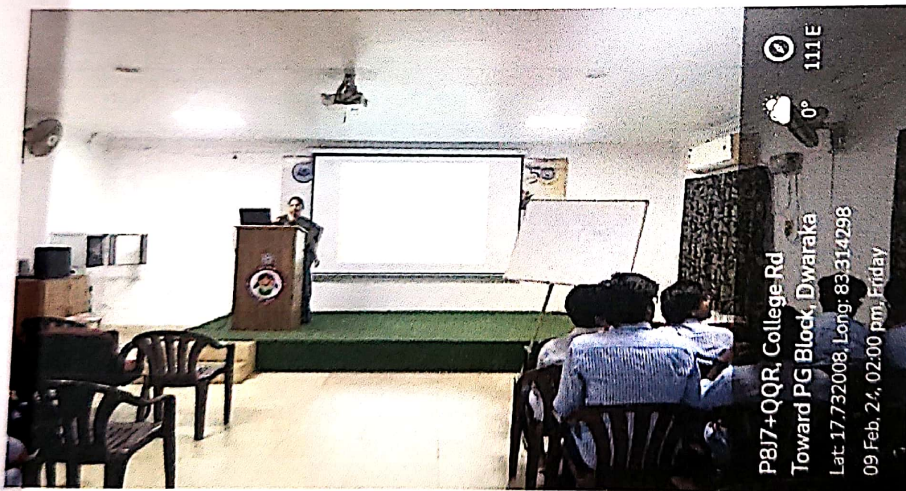
K.N.S.Chit
Course Co-odinator

HOD

Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

PROGRAM : B.Tech CSE
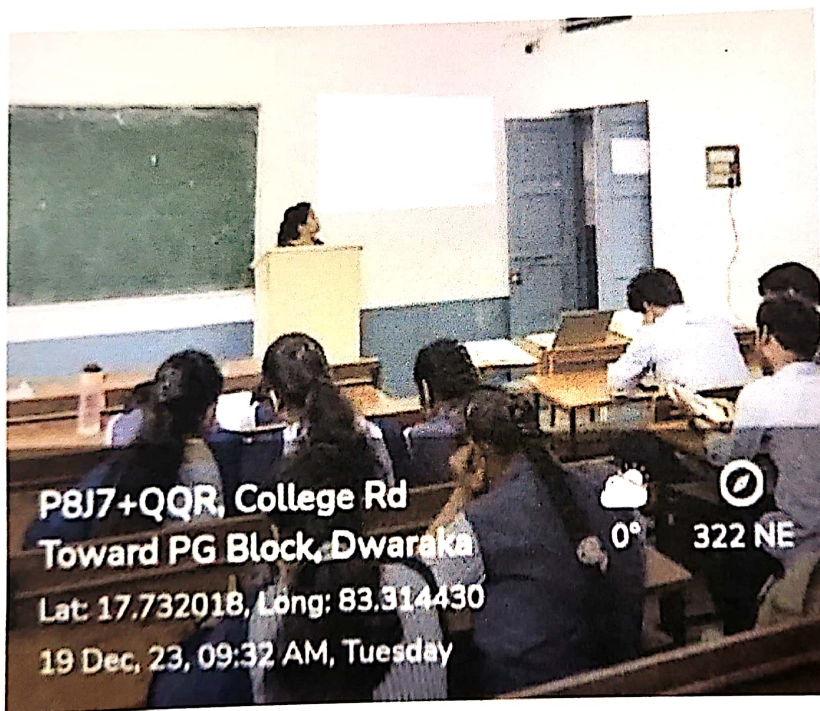**CLASS and Semester :** IV B.Tech I-Sem CSE Section-A
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : Human Computer Interaction
COURSE INSTRUCTOR : K.N.Satya Chitra
TEACHING METHOD: Teaching using LCD Projector
TOPIC: Decision Making Models
Date: 30-08-2023

Course Description:

This course explores the fundamental principles and practices of Human-Computer Interaction (HCI), a multidisciplinary field that studies how people interact with computers and to design technologies that let humans interact with computers in novel ways.

Decision-Making Models:
Rational Decision-Making Model: Assumes users make decisions by evaluating all possible options and selecting the one that maximizes utility.
Heuristic Decision-Making: Users rely on rules of thumb or shortcuts, which can speed up decision-making but may lead to biases or errors.
Bounded Rationality: Users make decisions with limited information and cognitive resources, aiming for satisfactory rather than optimal solutions.

Factors Affecting Decision Making:
Information Overload: Too much information can overwhelm users, leading to poorer decision quality.
Framing Effects: How information is presented can influence decisions (e.g., emphasis on potential gains versus losses).
Risk Perception: Users' tolerance for risk can affect their choices and interaction with systems.
Design Considerations:
Clarity and Simplicity: Interfaces should present information clearly and reduce complexity to aid decision-making.
Feedback and Confirmation: Providing immediate feedback and confirmation can help users make more informed decisions.
Customization and Personalization: Tailoring information and options based on user preferences and behavior can improve decision quality.

PRESENTATION SLIDES:

Identify the strengths and weakness of each alternative & Select the one that best addresses the salient discrepancies	**Implement the decision and take the steps necessary to ensure correct timing and execution. Follow-up and evaluate the results**	**Expected Value Analysis** — It permits decision makers to place a monetary value on the various consequences likely to result from the selection of a particular course of action.	**Decision Tree** — Encompass' expected value analysis by assigning probabilities to each possible outcome and calculating payoffs for each decision path.
5	6	7	8
Decision Tools — **Marginal Analysis** Analyzing decisions in terms of their incremental costs. **MIS** A mechanism to provide the manager with needed and accurate information on a regular and timely basis.	**Decision Making Styles** Everyone brings their own unique personalities and experiences to the decisions they make. Notwithstanding however, The decision-style model outlined in your text has identified four principle styles.	**Decision Making Styles** The decision-style model assumes that people differ along two dimensions: • Their way of thinking (How they process information) • Tolerance for Ambiguity (How clear does everything have to be)	**Directive** Low tolerance for ambiguity. Seeks rationality. Efficient and logical. Makes quick decisions. Short term focus.
9	10	11	12
Analytic High tolerance for ambiguity. Requires more information. Considers more alternatives. Careful and adaptable.	**Conceptual** Very broad in outlook. Considers many alternatives. Good at finding creative solutions. Focus long range.	**Behavioral** Work well with others. Concerned with achievements of subordinates. Receptive to suggestions. Avoids conflict.	**Ethics in Decision Making** **Common Rationalizations** • "Its not really illegal or immoral." • "Its in my (Organization's) best interest" • "No one will find out" • "Since it benefits the organization it will be protected"

k.w.s.chita
Course Instructor

k.w.s.chita
Course Co-odinator

HOD

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DEPARTMENT OF CIVIL ENGINEERING
Innovative Teaching Methods

PROGRAM   : B.Tech CIVIL
CLASS AND SEMESTER   : III B.Tech., II-Sem., CIVIL
ACADEMIC YEAR   : 2023-2024
COURSE NAME & CODE : GEE
COURSE INSTRUCTOR   : Mrs.P.Sridevi
Name of the Method   : ICT Tools
Teaching Learning Method 2(ICD PROJECTOR)
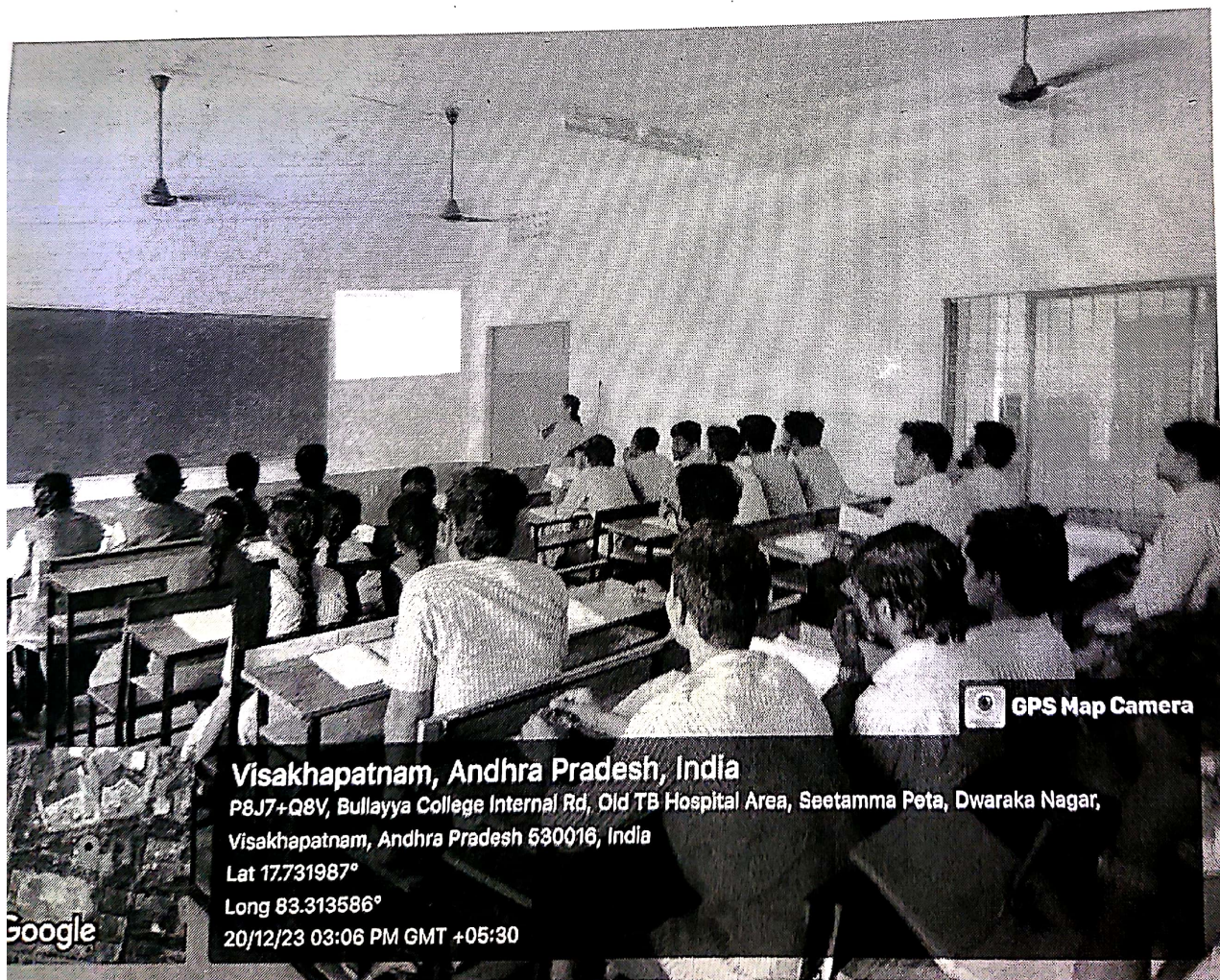
Visakhapatnam, Andhra Pradesh, India
P8J7+Q8V, Bullayya College Internal Rd, Old TB Hospital Area, Seetamma Peta, Dwaraka Nagar,
Visakhapatnam, Andhra Pradesh 530016, India
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Long 83.313586°
20/12/23 03:06 PM GMT +05:30

Visakhapatnam, Andhra Pradesh, India
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Visakhapatnam, Andhra Pradesh 530016, India
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Long 83.313494°
23/01/24 03:04 PM GMT +05:30
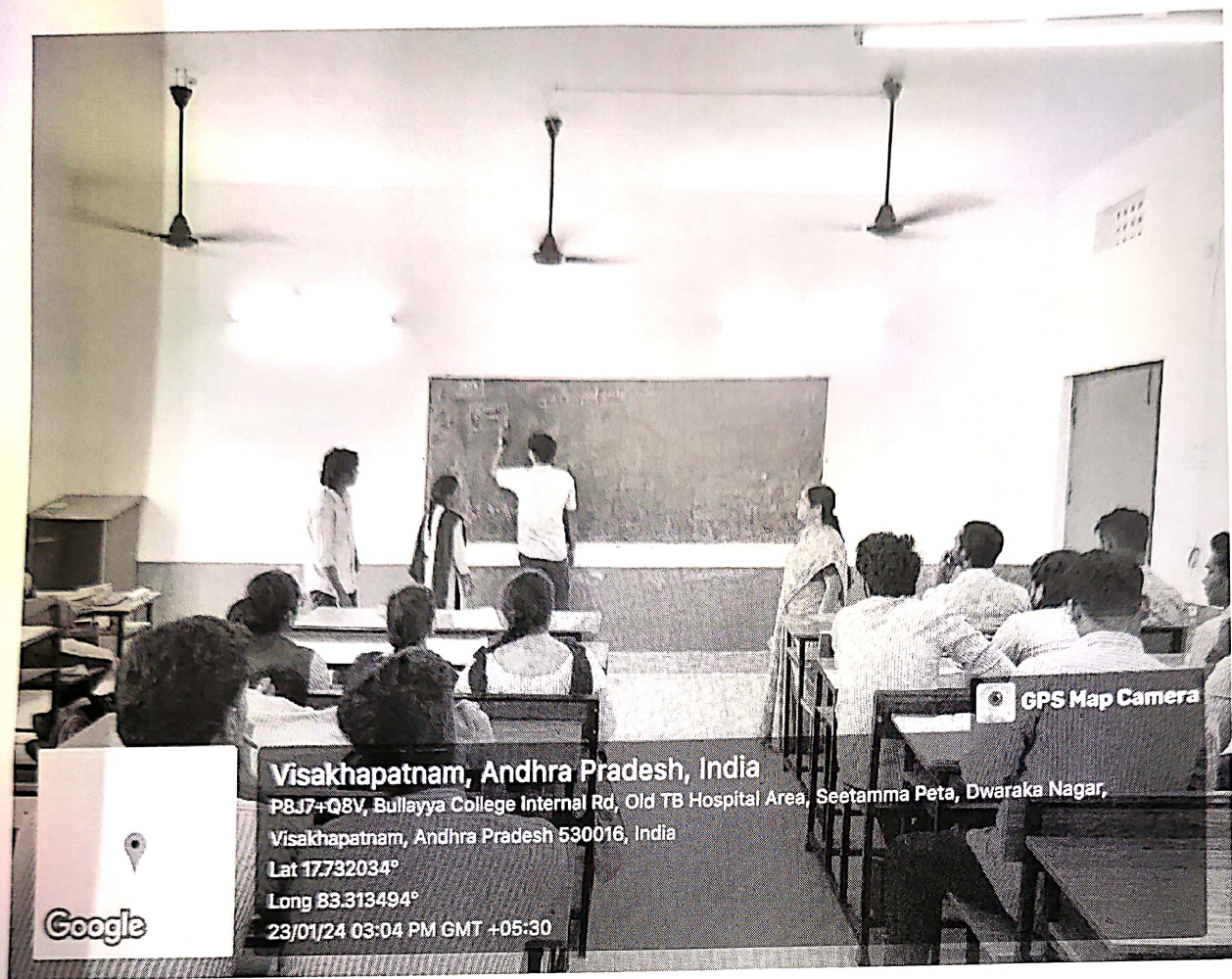
TOPICS COVERED

Soil Erosion

1. Factors effecting to erosion
2. Methods of soil conservation
3. Causes for soil degradation

Course Instructor

Course Coordinator

HOD

Head of the Dept.
Dept. of Civil Engineering
Dr.Lankapalli Bullayya College of Engineering
Resapuvanipalem, ...

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The Society For Collegiate Education
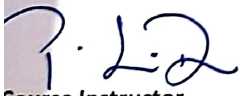### Affiliated to Andhra University, Approved by AICTE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Program   : B.Tech ECE
Class and Semester : III B.Tech., II-Sem., ECE-B
Academic Year   : 2023-2024
Course Name & Code: Microwave Engineering (EC-3203)
Course Instructor : N.Sailakshmi Kumari, Assistant Professor
Teaching Method   : LCD Projector based learning
Date   : 02-03-2024

<u>INNOVATIVE TEACHING</u>
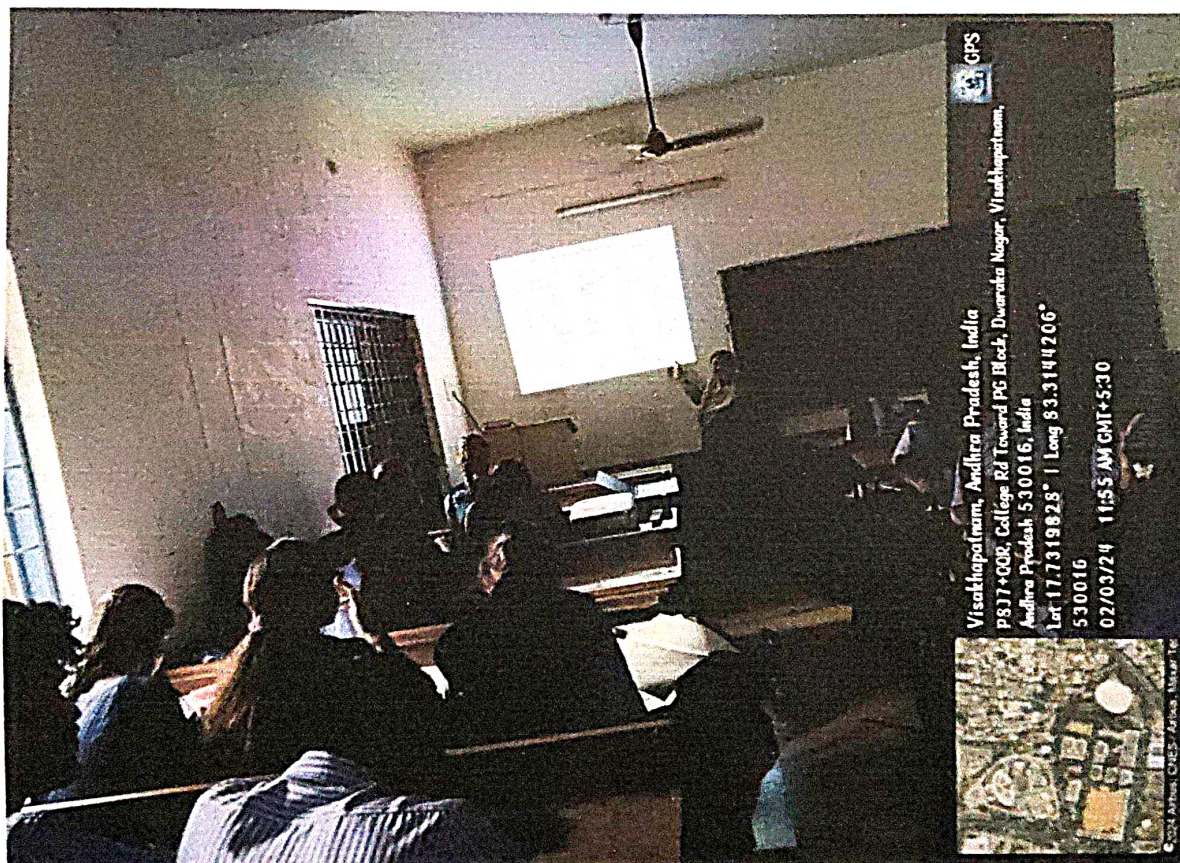
Topic: Cavity resonators   Date:02-03-24

Cavity resonators

This page **cavity resonator** basics and also mention cavity resonator function. It mentions link to rectangular and circular cavity resonator calculators.

A waveguide is basic microwave device used for various applications. The portions of waveguide are used as directional coupler, hybrids, duplexers, circulators and even as cavity resonator.
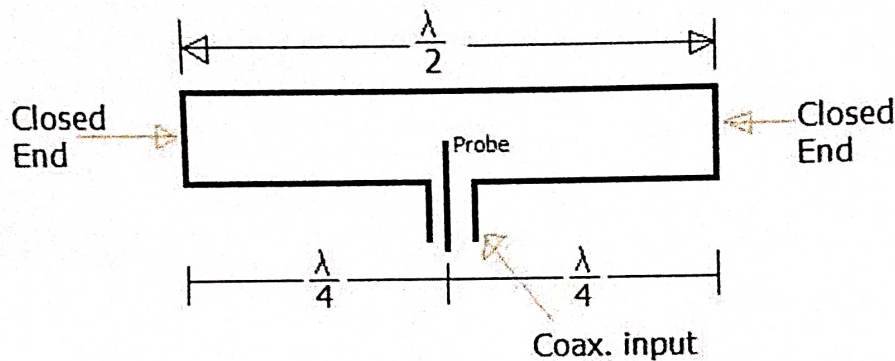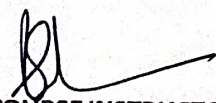
Half wavelength waveguide used as cavity resonator (side view)
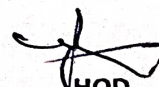
The Cavity resonator is short segment of waveguide which acts as high Q resonant circuit. As shown in the figure-1, a simple cavity resonator is formed using a shirt piece of waveguide 1/2 wavelength in size. A small probe is fixed at the center which injects the microwave energy. This small waveguide portion is shorted on both the ends using metallic piece.

Due to shorts at both the ends, signal injected from the probe will gets bounced from the short positions on both the sides. Even if signal is not injected at the probe, wave will keep bouncing till it die due to waveguide losses. This effect is known as resonance and circuit formed as parallel resonant circuit.

The cavity as mentioned has very high Q factor upto about 30000. Due this fact, cavities are used to design microwave filters and other resonant circuits.

COURSE INSTRUCTOR   **COURSE COORDINATOR**   **HOD**

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Department Of Electronics And Communication

Student Centric Methods

Program	: B.Tech ECE
Class and Semester	: II B.Tech., I-Sem., ECE
Academic Year	: 2023-2024
Course Name & Code	: ANALOG COMMUNICATIONS, EC-2103
Course Instructor	: S. SRAVANI, Assistant Professor
Teaching Method	: Teaching using LCD Projector
Date	: 29-11-2023

Innovative Teaching Methods

Topic: FM Modulation and Demodulation

Visakhapatnam, AP, India
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11/29/2023 01:54 PM GMT+05:30
Note : Captured by GPS Map Camera
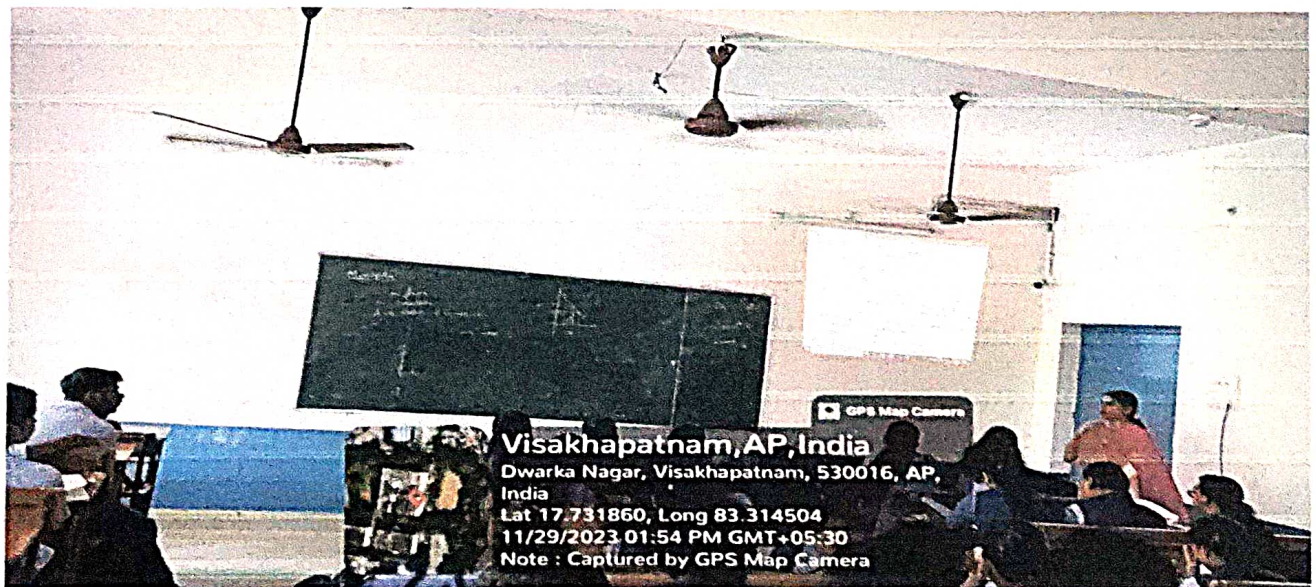
Frequency Modulation (FM) and Frequency Demodulation are techniques used in communication systems for transmitting and receiving signals.

FM Modulation

FM Modulation involves varying the frequency of a carrier signal in proportion to the amplitude of the input signal (the message signal). Here's a step-by-step breakdown of how FM modulation works:

1. **Carrier Signal**: Start with a high-frequency sinusoidal signal known as the carrier signal. This is usually a pure tone with a constant amplitude and frequency.
2. **Message Signal**: The message signal is the information you want to transmit (such as audio or data). This signal can vary in amplitude and frequency.
3. **Frequency Variation**: In FM, the frequency of the carrier signal is varied in accordance with the amplitude of the message signal. Specifically, the instantaneous frequency of the carrier is shifted up or down based on the amplitude of the message signal.
4. **Modulated Signal**: The result is a modulated signal where the carrier frequency changes as the amplitude of the message signal changes. The rate of frequency deviation is proportional to the amplitude of the message signal.

FM Demodulation

FM Demodulation is the process of extracting the original message signal from the modulated carrier signal. There are several techniques to achieve this, with two common methods being:

1. **Discriminator Method**:
   o A discriminator is a device that converts the frequency variations of the FM signal into amplitude variations. This is achieved using components like filters and detectors that respond to changes in frequency.
   o The amplitude variations are then processed to retrieve the original message signal.
2. **Phase-Locked Loop (PLL)**:
   o A PLL is an electronic circuit that synchronizes its output with the frequency and phase of the input signal. In demodulation, the PLL locks onto the carrier frequency and then converts the phase difference between the input signal and the PLL reference signal into a voltage that represents the original message signal.
   o The output of the PLL is a demodulated signal that can be further processed to recover the original message.

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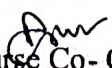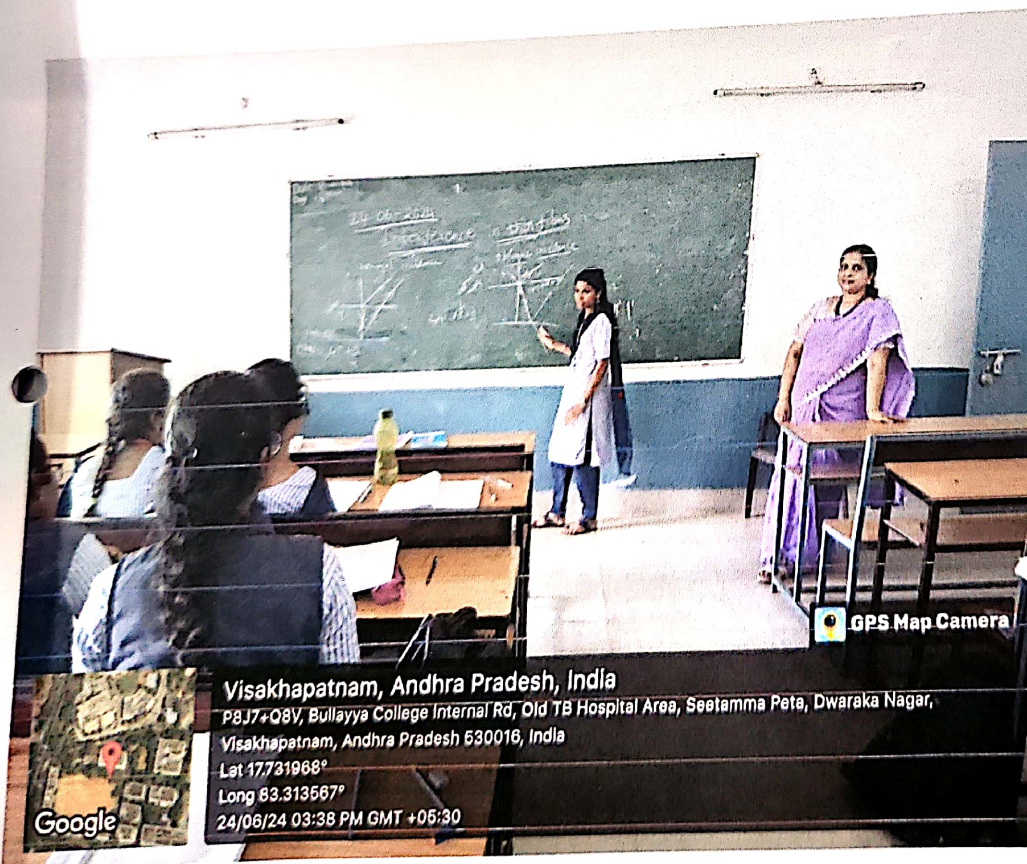Ph : Off : 0891-2703293, 2703296
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PROGRAM : B.Tech CSE-B

CLASS AND SEMESTER : I B.Tech., II-Sem., CSE-B

ACADEMIC YEAR : 2023-2024

COURSE NAME & CODE : Engg.Physics

COURSE INSTRUCTOR : S.Siva Jyothi

DATE : 24-06-2024

Name of the Method : Student-Centric method-Flipped class room

Topic : Interference in Thin films from OPTICS-Unit-2

Pic No	Name of the Student	Roll No
1	M.BHARGAVI	323136410070
2	M.BHARGAVI	323136410070
3	S.BHANU PAVAN KALYAN	323136410117

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Program	:	B.Tech CSE
Class And Semester	:	III B.Tech., I-Sem., CSE, Section- A
Academic Year	:	2023-2024
Course Name & Code	:	ARTIFICIAL INTELLIGENCE CS3102
Course Instructor	:	Syed Mujib Rahaman
Course Coordinator	:	Syed Mujib Rahaman
Teaching Method	:	Flipped Class Room
Pre-Requisite	:	Knowledge in Data Structures, Basic Mathematical Knowledge

Topic: LISP Programming   **AY:** 2023-24   **Class:** III/IV B.Tech CSE   Date: 15-09-2023

LISP (LISt Processing) is one of the oldest programming languages, known for its strong support for symbolic computation and recursive functions. It was developed in 1958 by John McCarthy and is widely used in artificial intelligence research. LISP's unique feature is its use of linked lists as the primary data structure, enabling powerful manipulation of symbols and expressions. The language allows for dynamic typing and has a distinctive, fully parenthesized prefix notation. Despite its age, LISP has influenced many modern programming languages and continues to be used in specialized applications.

Course Instructor

Course Coordinator

HOD

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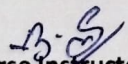Email : principal@lbce.edu.in   Website : www.lbce.edu.in
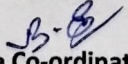
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Program	: B.Tech CSE
Class And Semester	: II B.Tech., II-Sem., CSE-A
Academic Year	: 2023-24
Course Name & Code	: : Data Base Management System [TH-07BENG-2229]
Course Instructor	: B. Santos Kumar
Teaching Method	: TLM 6 (Flipped/Blended Learning)
Date	: 15-04-2024
Topic	: SQL Basics: Joins, SQL Basics: Subqueries, Normalization

Description:

In preparation for class, assign relevant readings on SQL Basics: Joins, SQL Basics: Subqueries, Normalization in data base management systems. Encourage students to review this material beforehand. During class, facilitate discussions, problem-solving sessions, and group activities. Use practical examples to programming concepts.

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Course Instructor   Course Co-ordinator   HOD

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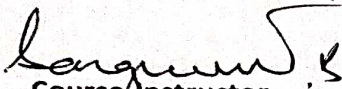## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT CENTRIC METHODS

PROGRAM	: B.TECH ECE
CLASSANDSEMESTER	: II BTECH., II-SEM., ECE-A
ACADEMICYEAR	: 2023-2024
COURSENAME&CODE	: LINEAR INTEGRATED CIRCUIT APPLICATIONS -EC 2204
COURSEINSTRUCTOR	: MR. B. SANGEETH KUMAR, ASSISTANT PROFESSOR
TEACHINGMETHOD	: FLIPPED LEARNING
DATE	: 09-05-2024

TOPIC: DIFFERENTIAL AMPLIFIER

NAME OF THE STUDENT: KOLIPAAKA PARIMALA KRUPA
REGISTER NO: 322136412045

Analysis of Deferential Amplifier and discussing about Block Diagram of the Differential amplifier, Transistorized Differential Amplifier, different configurations of Differential Amplifier and analysis of the output Voltage of Differential Amplifier.

Course-Instructor	Course-Coordinator	HOD

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

PROGRAM : I/IVB.Tech
CLASS AND SEMESTER : I B.Tech CIVIL;Semester-I
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : Engineering Physics, CV1102
COURSE INSTRUCTOR : S.Siva Jyothi
NAME OF THE METOD : Tutorial
TOPIC : Entropy and Second Law of Thermodynamics
DATE : 13-10-2023

TUTORIAL – Questions

UNIT-I

1. Distinguish reversible and irreversible processes? How does the entropy changes in each one of these processes?

2. State and explain Second law of thermodynamics. Describe Kelvin's scale of temperature.

3. Derive an expression for the work done in compressing a gas in an isothermal process.

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DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

PROGRAM : 1/IV B.Tech
CLASS AND SEMESTER : IB.Tech., I-Sem., CSE, Section-B
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : MATHEMATICS-I, CS1101
COURSE INSTRUCTOR : Dr G V Vijayalakshmi
NAME OF THE METOD : Problem Solving (Tutorial)
TOPIC : Euler's theorem & Generalized mean value theorems
DATE : 04-11-23

1. IF $u = \tan^{-1}\left(\dfrac{x^3 + y^3}{x - y}\right)$, prove that $x\dfrac{\partial u}{\partial x} + y\dfrac{\partial u}{\partial y} = \sin 2u$

2. Verify Lagrange's theorem for $f(x) = \sin x$ in $(0, \pi)$.

3. Prove that $\log(1 + x) = \dfrac{x}{1 + \theta x}$, where $0 < \theta < 1$ and hence deduce

$$\frac{x}{x+1} < \log(1 + x) < x; \quad x > a$$

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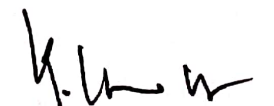Email : principal@lbce.edu.in   Website : www.lbce.edu.in

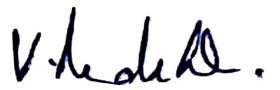## DEPARTMENT OF BASIC SCIENCES AND HUMANITIES
Tutorial V

PROGRAM	: B.Tech CSE
CLASS AND SEMESTER	: I B.Tech., I-Sem., CSE, Section-B
ACADEMIC YEAR	: 2022-2023
COURSE NAME & CODE	: English
COURSE INSTRUCTOR	: Dr V Radha Devi
DATE	: 10 March 2023
TOPIC	: Letter & Email Writing

1. Write a letter to the Principal of your college requesting to conduct a Technical Fest.

2. Write an email to your friend about your College.

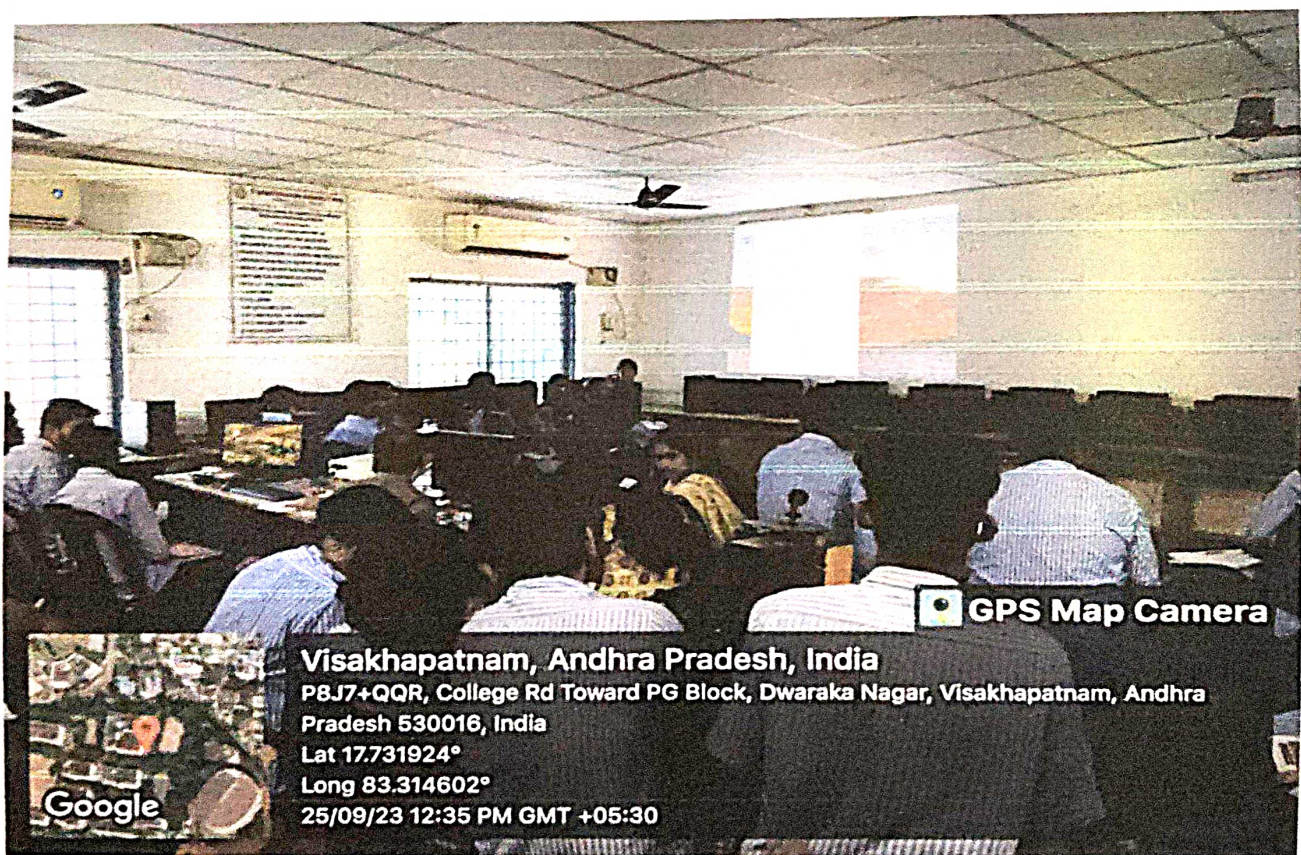Course Instructor

Course Coordinator

HOD

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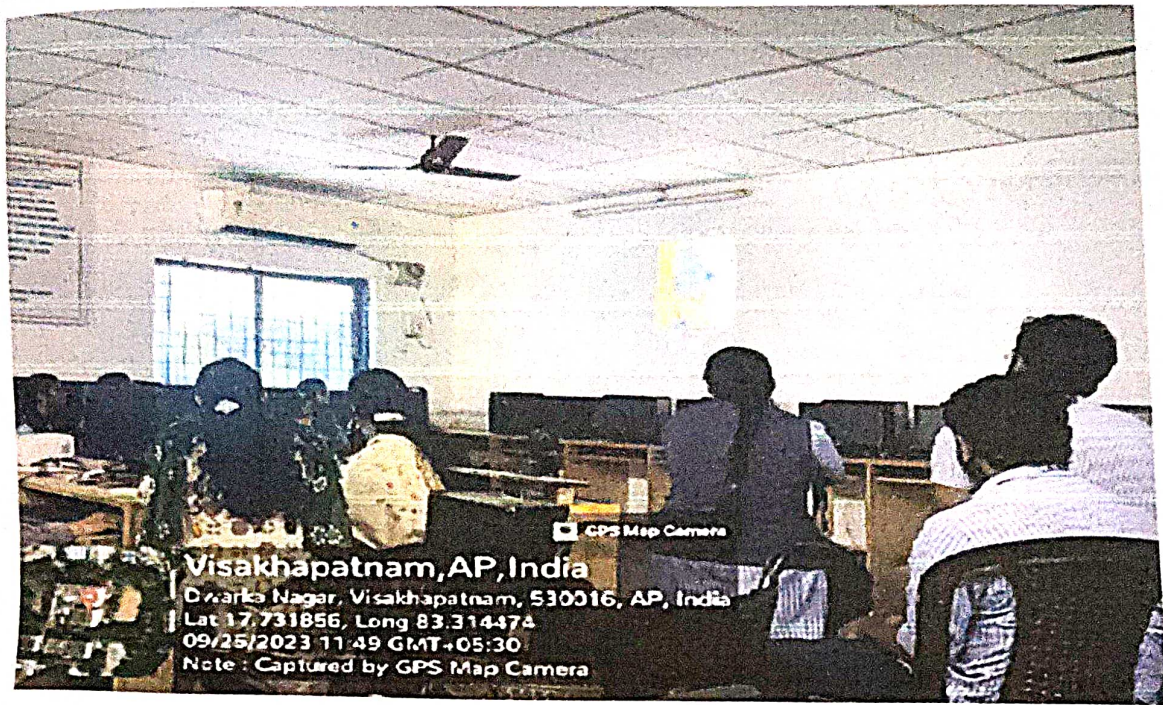Email : principal@lbce.edu.in   Website : www.lbce.edu.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Program	: B.Tech ECE
Class and Semester	: IV B.Tech., I-Sem., ECE, Section-A
Academic Year	: 2023-2024
Course Name & Code	: Internet of Things
Course Instructor	: R.SHARON, Assistant Professor
Teaching Method	: **Projector Based Learning**
Date	: 25-09-2023

INNOVATIVE TEACHING

Visakhapatnam, Andhra Pradesh, India
P8J7+QQR, College Rd Toward PG Block, Dwaraka Nagar, Visakhapatnam, Andhra Pradesh 530016, India
Lat 17.731924°
Long 83.314602°
25/09/23 12:35 PM GMT +05:30

Topic:Controlling AC Power Devices with Relays Date:25-09-2023

- A relay is an electrically operated switch that allows you to control a high-voltage circuit with a low-voltage signal.

- Relay modules typically have three main terminals:

  - **NO (Normally Open):** The device is off until the relay is activated.
  - **NC (Normally Closed):** The device is on until the relay is activated.
  - **COM (Common):** The common terminal for both NO and NC.
  - **Connect the Raspberry Pi's 5V or 3.3V GPIO pin** to the **VCC** pin of the relay module.
  - **Connect a GPIO pin** from the Raspberry Pi to the **IN** pin on the relay module. This pin will control the relay.
  - **Connect the GND** pin on the Raspberry Pi to the **GND** pin on the relay module.

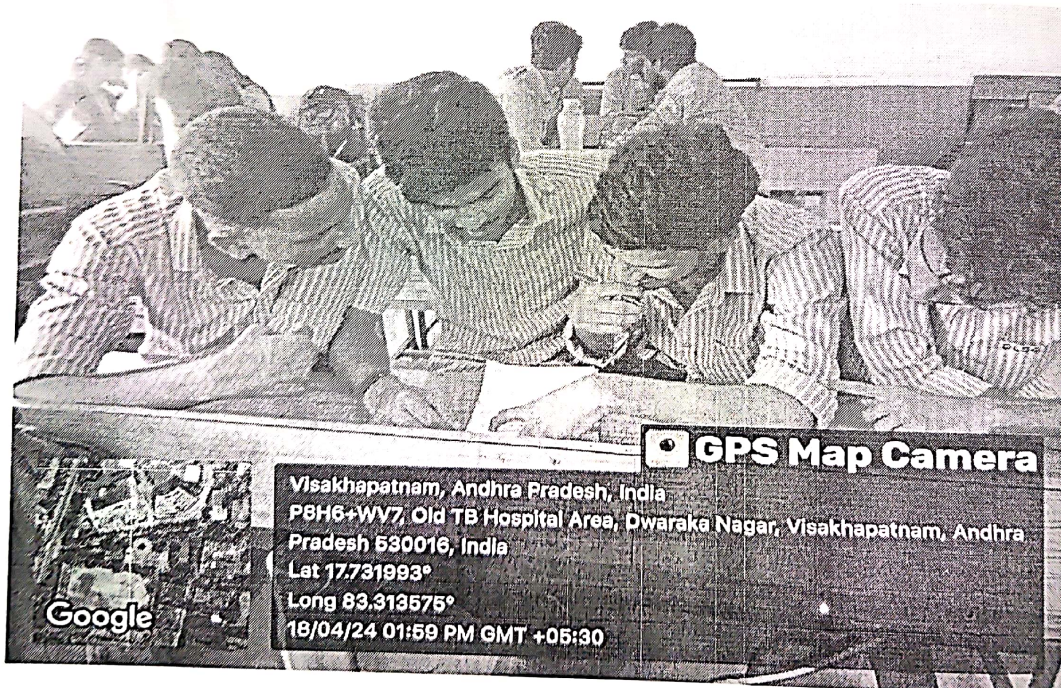Course Instructor   Course Co-ordinator   HOD

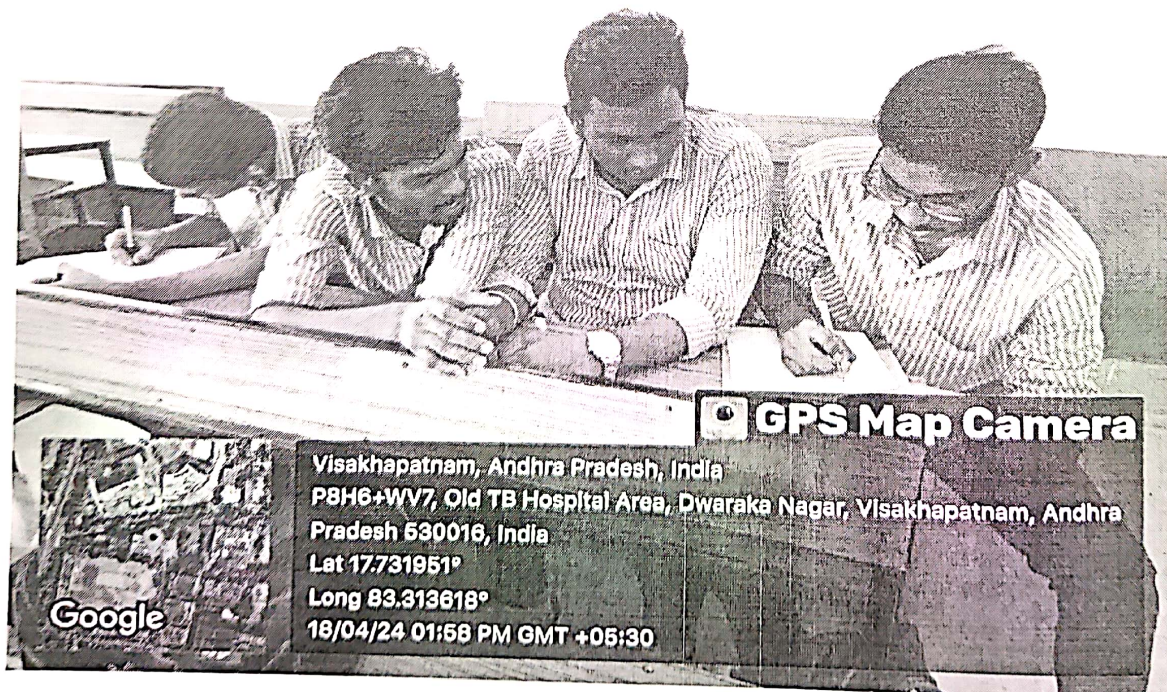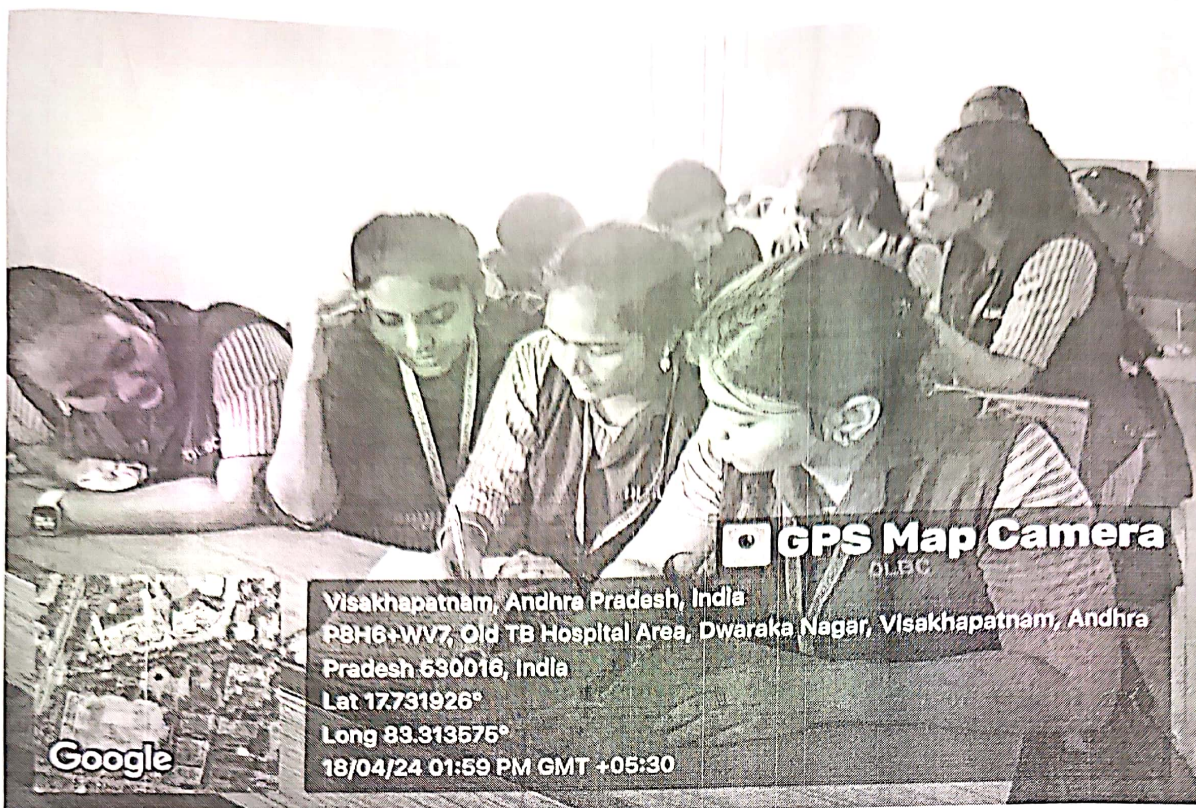## DEPARTMENT OF BASIC SCIENCES AND HUMANITIES
Peer Learning Methods

PROGRAM : B.Tech CSE
CLASS AND SEMESTER : I B.Tech., I-Sem., ECE, Section-B
ACADEMIC YEAR : 2023-2024
COURSE NAME & CODE : English
COURSE INSTRUCTOR : Dr V Radha Devi
DATE : 18 April 2024
TEACHING METHOD : Peer Learning
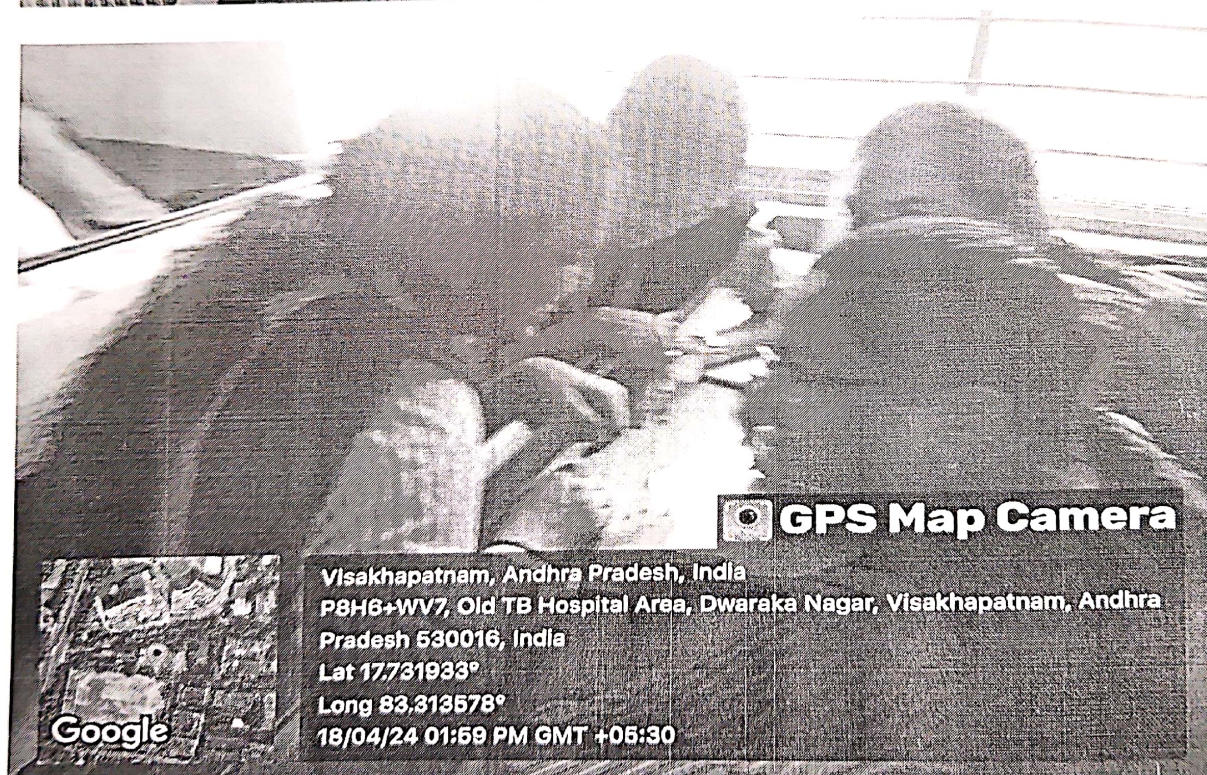TOPIC : Guided Composition

Guided Composition:

After the session on Guided Composition, the students were divided into teams of three, topics and the hints to develop a composition were given. Each team was given 10 minutes to compose a paragraph by using the hints given. After the written task, the students orally presented the composition created by them. The teams actively participated in the role play by enacting and presenting the dialogues of the characters assigned to them. The session helped the students to enhance their speaking skills and team spirit.
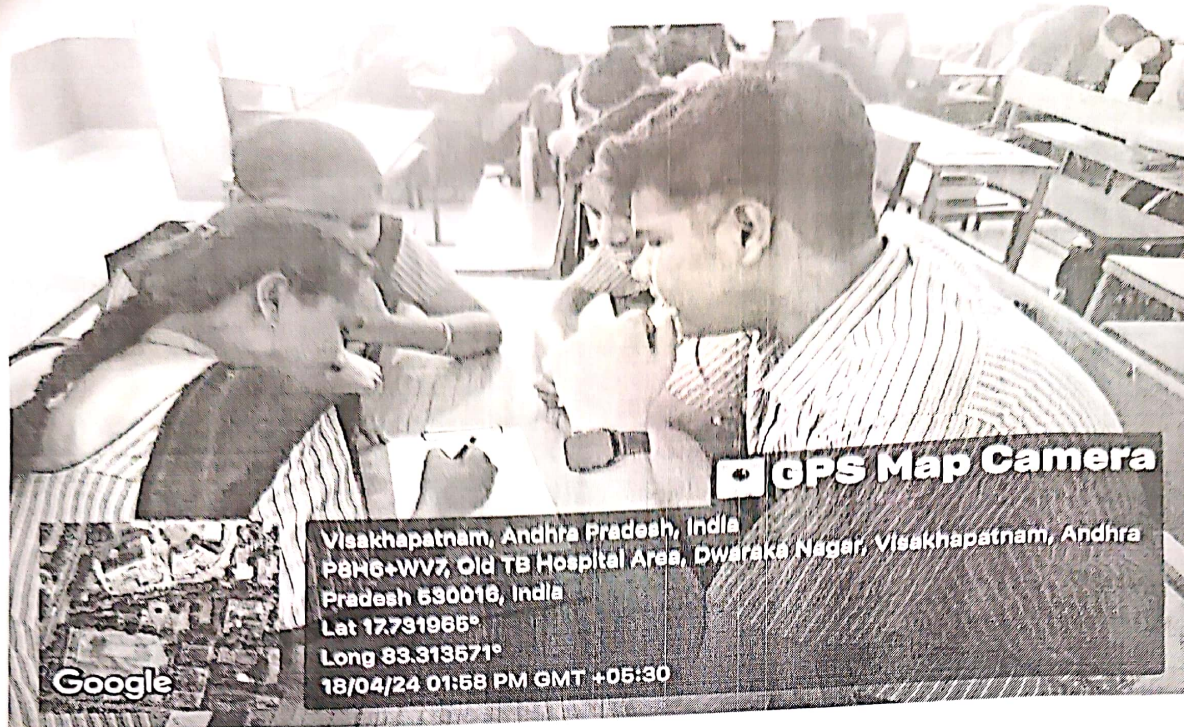
Visakhapatnam, Andhra Pradesh, India
P8H6+WV7, Old TB Hospital Area, Dwaraka Nagar, Visakhapatnam, Andhra Pradesh 530016, India
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Visakhapatnam, Andhra Pradesh, India
P8H6+WV7, Old TB Hospital Area, Dwaraka Nagar, Visakhapatnam, Andhra
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Course Instructor

Course Coordinator

HOD

Head of the Department
Dept.of Basic Sciences & H   s
Dr. Lankapalli Bullayya Colle
R   pu ripalem, V

Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

The Society For Collegiate Education
Affiliated to Andhra University, Approved by AICTE
52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.
Ph : Off : 0891-2703293, 2703296
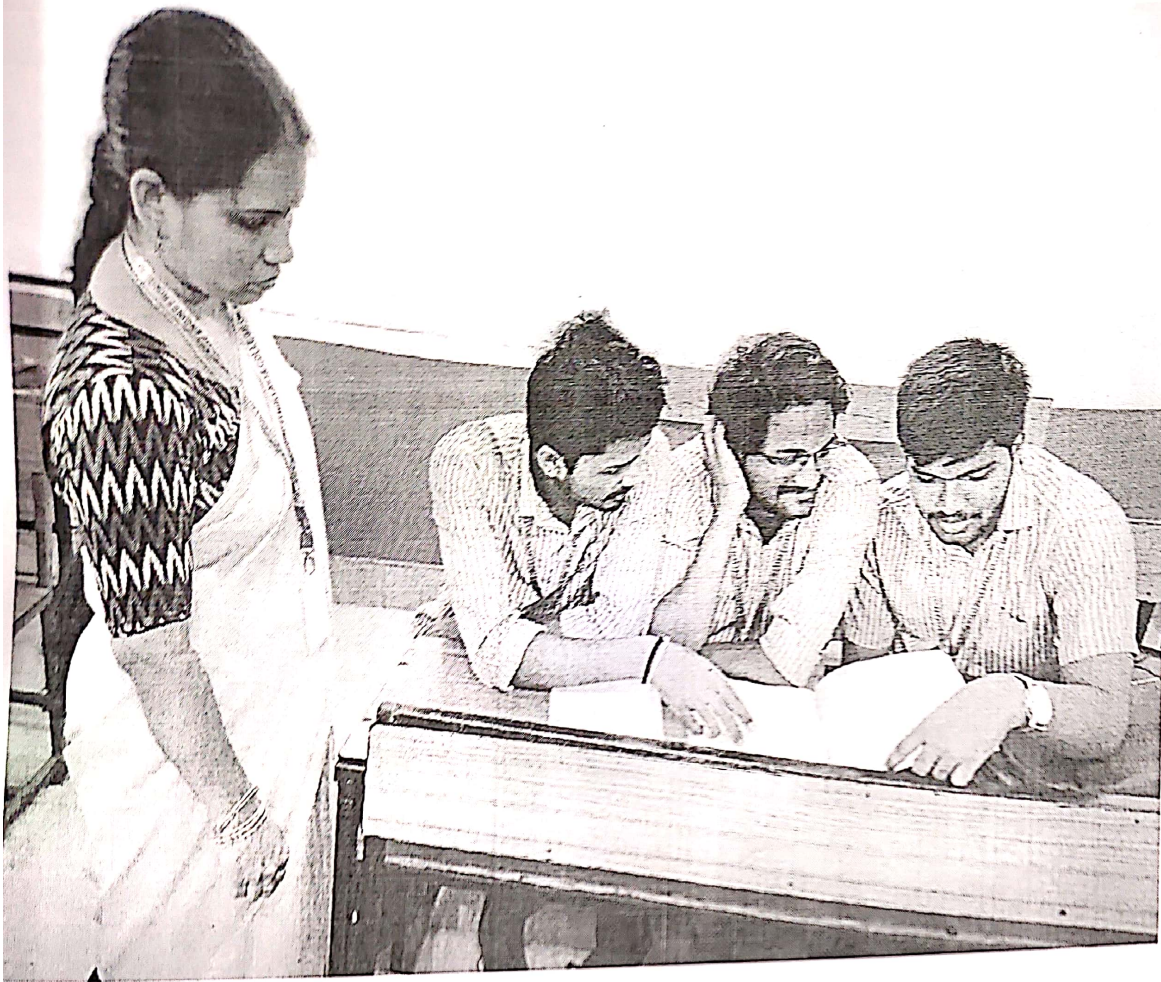Email : principal@lbce.edu.in   Website : www.lbce.edu.in

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES
BEST PRACTICE
Peer Learning Methods

PROGRAM	: B.Tech CSE
CLASS AND SEMESTER	: I B.Tech., 1-Sem., CSE, Section-A
ACADEMIC YEAR	: 2023-2024
COURSE NAME & CODE	: Mathematics-II
COURSE INSTRUCTOR	: Dr G V Vijayalakshmi
DATE	: 19-07-2024
TEACHING METHOD	: Peer Learning
TOPIC	: Linear Differential Equation (Particular Integral of all cases)

After completion of some topics, the students were divided into groups of five students by leading with one merit students. They are discussing their doubts on these topics and then the students were write the class test or Assignments on these topics.
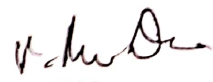
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Course Instructor

Course Coordinator

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HOD

Head of the Department
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