BVRIT HYDERABAD College of Engineering for Women

Department of Electronics and Communication Engineering

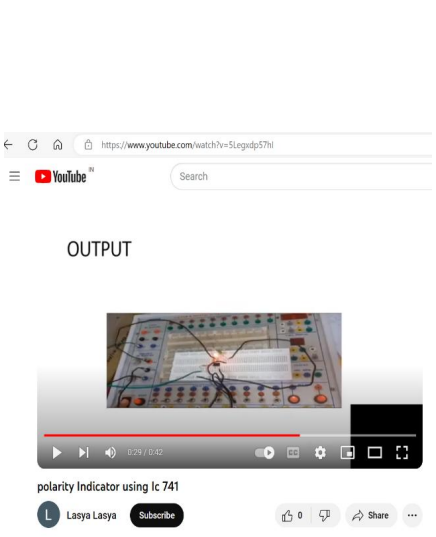
Name of the Activity: Experiential Learning
Faculty Name: Ms. Rajidi Sahithi
Class / Semester: II ECE B / II Sem
Academic Year: 2022-23
Subject Name: Linear IC Applications
Topic: Unit III & IV (Applications of IC 741 and IC 555)
Brief Write-up (Not exceeding 200 Words)

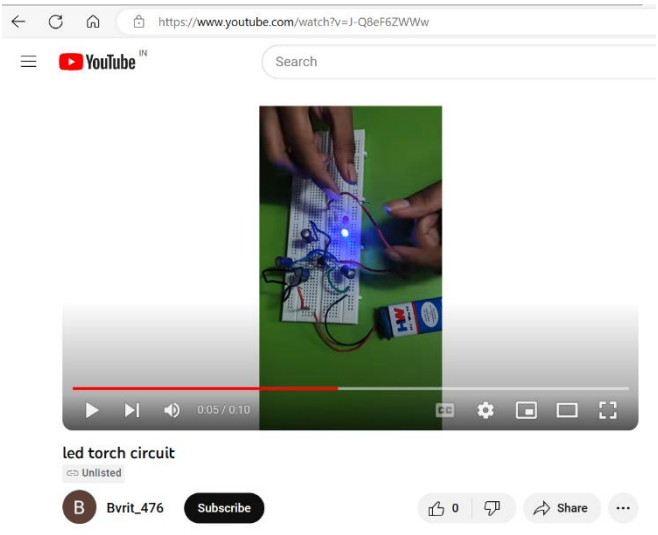
Experiential learning is an educational approach that emphasizes learning through direct experience and reflection on those experiences. It is a hands-on, active learning method that encourages students to engage with real-world situations and problems. The primary objectives of experiential learning are to enhance understanding, retention, and application of knowledge and skills. In this activity whole class is divided in 23 teams with team size 3 to 4. Designed an application and took video of the design and uploaded in youtube.

Objective:

Experiential learning aims to deepen understanding by allowing students to see theoretical concepts in action. It helps bridge the gap between theory and practice.Active engagement and practical application of knowledge improve retention rates. When students personally experience concepts, they are more likely to remember and apply them in the future.

Photographs:





For any queries, please contact to below mail: sahithi.r@bvrithyderabad.edu.in

Sahithi

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Event Name: First_write_Score_bright_

Date (s) of Conduction: 23-02-2023 at 11.33.10AM (3rd hr).

No. of Participants: 62

Organized by: Dr.M.Parvathi

About the Event: Identification of embedded device based on field, Understanding the importance of embedded device based on type application. Asked the students to form as four batches with 20 members in each batch, to come quickly to the board to write type of embedded system and application in their respective column, finally the score was announced for winners based on the maximum number of applications and devices were identified.

Photos

The activity is mapped to the following CO

CO No.	Course Outcomes
C326 - Embedded System Design - EC613PE	
C326.1	Distinguish the embedded systems from general purpose processing systems.

Evaluation Criteria: Performance evaluation was done based on their score outcomes. Row-3 stood first with maximum score of 22, Row-1 stood second with the score of maximum 19.

Row Numbers	Score Obtained	Position Placed
1	19	Second
2	17	---
3	22	First
4	15	-----

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Event Name: Quiz

Date (s) of Conduction: 24-03-2023 at 11.45AM (4th hr).

No. of Participants: 64

Organized by: Dr.M.Parvathi

About the Event: Quiz on mapping the components according to the type of embedded Application. Asked the students to form as four batches with 20 members in each batch, by calling each batch with a quiz question related, one student from the specific batch should come and map the correct answer, if not answered then the question will be passed to the next batch, finally based on the highest score the particular batch is announced with winner position.

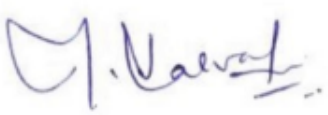
Photos:

The activity is mapped to the following CO

CO No.	Course Outcomes
C326 - Embedded System Design - EC613PE	
C326.2	Recommend suitable hardware for different applications of embedded systems.

Evaluation Criteria: Performance evaluation was done based on their score outcomes. Batch 2 stood first with maximum score of 18, Batch-3 stood second with the score of maximum 17.

Batch Numbers	Score Obtained	Position Placed
1	16	
2	18	First
3	17	Second
4	12	



BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Chart preparation

Faculty Name: T. Amy Prasanna
Class / Semester: I CSE C
Academic Year: 2022-23
Subject Name: Electronic Devices and circuits
Topic: Unit I (Diodes)
Date : 11-06-2023
No. Of Students: 60

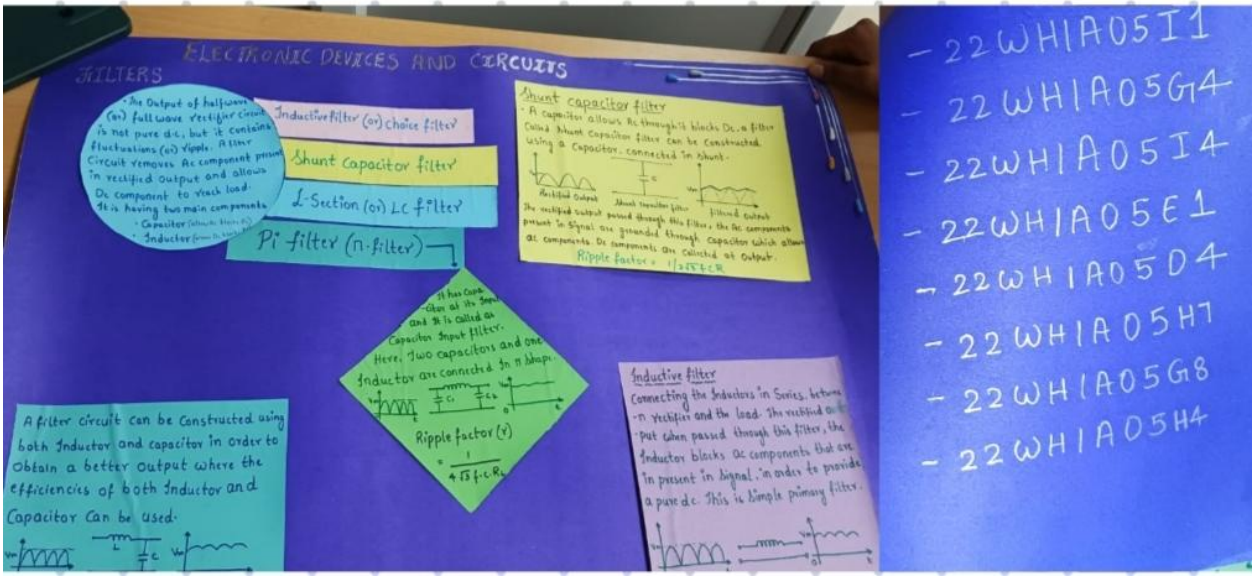
Brief Write-up (Not exceeding 200 Words)

students are divided into groups, They need to make a chart on given topic by collecting required material. This activity makes the students to involve in a team and discuss various concepts with peer and there by enhancing knowledge on those concepts.

Objective:

This gives a wide range of scope to the students to discuss the concepts as a group and help them in better understanding the concepts.

Photographs



Amy prasanna

For any queries, please contact to below mail: prasanna.tella@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Crossword Puzzle

Faculty Name: T. Amy Prasanna
Class / Semester: I CSE B
Academic Year: 2022-23
Subject Name: Electronic Devices and Circuits
Topic: Unit I,II(PN Junction Diode and its Applications)
Date : 18-07-2023
No. Of Students: 67

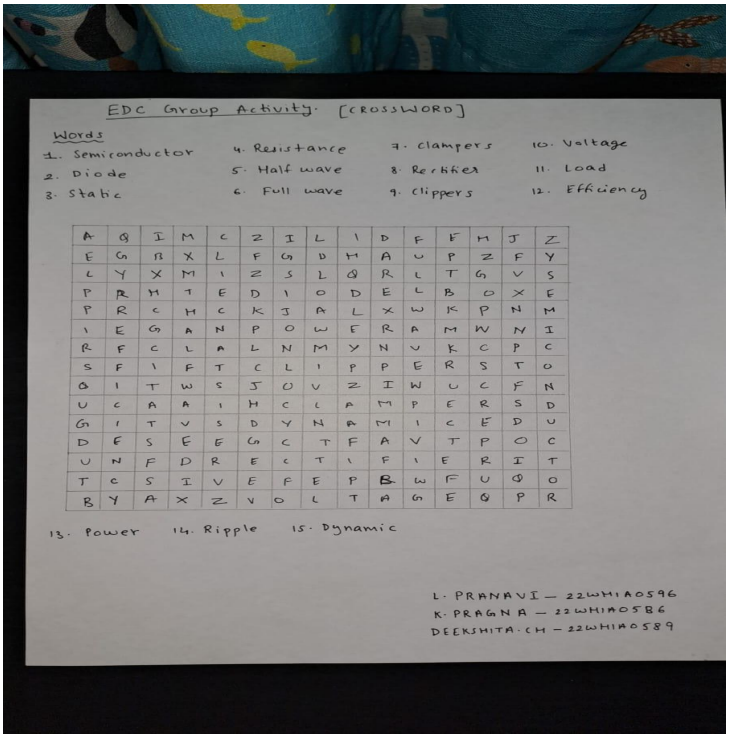
Brief Write-up (Not exceeding 200 Words)

students are divided into groups; They are asked to prepare Crossword puzzle by preparing questions from Unit 1 and 2 related to PN junction diode. It is the activity to encourage students to work as a group by discussing various topics in order to prepare questions and answers and finally build a Puzzle.

Objective:

This gives a wide range of scope to the students to analyze the concepts as a group and help them in better understanding the concepts.

Photographs



Amy prasanna

For any queries, please contact to below mail: prasanna.tella@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Crossword Puzzle

Faculty Name: Ms. M. Praveena
Class / Semester: II/I ECE B
Academic Year: 2022-23
Subject Name: Digital System Design
Topic: Unit 1

No. of students participated: 64

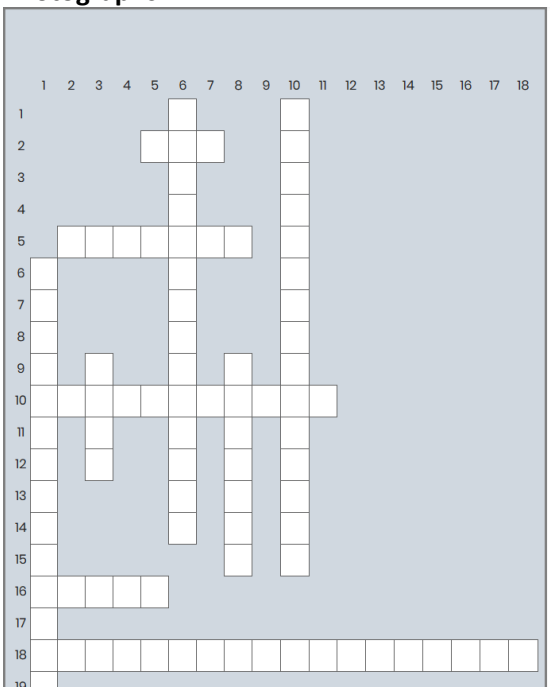
Brief Write-up (Not exceeding 200 Words)

Created a glossary for all the concepts learnt in Unit I (number systems, binary codes) and shared a crossword created from the glossary to the students through Moodle course portal. Students have attempted the crossword and from this we have analyzed the percentage of concepts learnt by students and thereby guided them on the concepts they were lacking.

Objective:

To Understand the grasping level of students regarding topics learnt and understand the speed of content delivery.

Photographs



Across

2:
A gate whose output is 1 if and only if all its inputs are 1.
5:
A product term which contains all the variables of the function either in complemented form or in uncomple form is called _____
10:
A table that gives outputs for all possible combinations of inputs to a logic circuit.
16:
An 8 square in a k-map is called _____
18:
A small semiconductor chip containing several electronic circuits.

Down

1:
Logic system in which the higher of the two levels is represented by 1 and the lower level is represented by 0.
3:
A 4 square in a k-map is called
6:
A gate that performs all the basic logical operations, such as AND, OR and NOT
8:
A sum term which contains all the variables of the function either in complemented form or in uncompleme called a _____

The scores achieved by the students are consolidated and assessed to understand the misconceptions and the level of understanding.

Sample scores:

Group: All groups User: All participants

1 2 3 4 5

Delete	User	Start	Last attempt	End of game	Score	Attempts	Preview	solution
✕	NAGA DHARANI YALAMARTHI	Thursday, 12 October 2023, 9:58 PM	Thursday, 12 October 2023, 9:58 PM		0	1		
✕	NAGA DHARANI YALAMARTHI	Thursday, 12 October 2023, 9:19 PM	Thursday, 12 October 2023, 9:58 PM	Thursday, 12 October 2023, 9:58 PM	98	7		
✕	SRI NITHYA KANDULA	Thursday, 12 October 2023, 9:57 PM	Thursday, 12 October 2023, 9:57 PM		0	1		
✕	SRI NITHYA KANDULA	Thursday, 12 October 2023, 9:57 PM	Thursday, 12 October 2023, 9:57 PM	Thursday, 12 October 2023, 9:57 PM	7	2		
✕	JAYASRI PECHHITTI	Thursday, 12 October 2023, 9:24 PM	Thursday, 12 October 2023, 9:56 PM	Thursday, 12 October 2023, 9:56 PM	77	2		
✕	LAXMI PRIYA CHANDIREDDY	Thursday, 12 October 2023, 9:54 PM	Thursday, 12 October 2023, 9:54 PM	Thursday, 12 October 2023, 9:54 PM	23	2		
✕	LAXMI PRIYA CHANDIREDDY	Thursday, 12 October 2023, 9:48 PM	Thursday, 12 October 2023, 9:54 PM	Thursday, 12 October 2023, 9:54 PM	5	4		
✕	SRI NITHYA KANDULA	Thursday, 12 October 2023, 9:19 PM	Thursday, 12 October 2023, 9:54 PM	Thursday, 12 October 2023, 9:54 PM	48	2		
✕	SUSMITHA KUNCHALA	Thursday, 12 October 2023, 9:23 PM	Thursday, 12 October 2023, 9:53 PM	Thursday, 12 October 2023, 9:53 PM	65	3		
✕	SAHITHI THAMMINI	Thursday, 12 October 2023, 9:19 PM	Thursday, 12 October 2023, 9:53 PM	Thursday, 12 October 2023, 9:53 PM	73	2		
✕	SARAYU ANUMALLA	Thursday, 12 October 2023, 9:22 PM	Thursday, 12 October 2023, 9:53 PM	Thursday, 12 October 2023, 9:53 PM	72	6		
✕	MANASVI KUSUMA	Thursday, 12 October 2023, 9:23 PM	Thursday, 12 October 2023, 9:53 PM	Thursday, 12 October 2023, 9:53 PM	60	2		
✕	KAVITHA VENNELI	Thursday, 12 October 2023, 9:26 PM	Thursday, 12 October 2023, 9:51 PM	Thursday, 12 October 2023, 9:51 PM	92	2		
✕	CHANDINI MAKIREDDY	Thursday, 12 October 2023, 9:51 PM	Thursday, 12 October 2023, 9:51 PM		0	1		
✕	GARREPALLI POOJITHA	Thursday, 12 October 2023, 9:51 PM	Thursday, 12 October 2023, 9:51 PM		0	1		
✕	GARREPALLI POOJITHA	Thursday, 12 October 2023, 9:39 PM	Thursday, 12 October 2023, 9:51 PM	Thursday, 12 October 2023, 9:51 PM	100	7		
✕	SANJANA GARINAPALLY	Thursday, 12 October 2023, 9:22 PM	Thursday, 12 October 2023, 9:51 PM	Thursday, 12 October 2023, 9:51 PM	100	3		
✕	SAHITHI RANGARAJU	Thursday, 12 October 2023, 9:49 PM	Thursday, 12 October 2023, 9:49 PM	Thursday, 12 October 2023, 9:49 PM	5	2		
✕	LAXMI PRIYA CHANDIREDDY	Thursday, 12 October 2023, 9:20 PM	Thursday, 12 October 2023, 9:48 PM	Thursday, 12 October 2023, 9:48 PM	100	5		
✕	SRAVANI MARYALA	Thursday, 12 October 2023, 9:42 PM	Thursday, 12 October 2023, 9:47 PM		87	5		

For any queries, please contact to below mail: praveena.m@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Learning by Doing and Discussion

Faculty Name: Ms. M. Praveena
Class / Semester: II/I ECE B
Academic Year: 2022-23
Subject Name: Digital System Design
Topic: Unit II (Design of combinational circuits)

No. of students participated: 56

Brief Write-up (Not exceeding 200 Words)

This is a group activity wherein students confer among themselves over a concept on which they were asked to give their views. This is in turn passed on to next group who will study the first group representation of the concept and add either question marks over the representation which require clarity or put a cross mark over the representation which are wrongly interpreted. Like this the paper will be passed on to all the groups and finally the first group receives its paper and then they need to give justifications to all the representations done by them, answer all the question marks and correct all their mistakes.

Objective:

This gives a wide range of scope to the students to discuss with their peers regarding the concepts and help them in better understanding the concepts because of these discussions in peer group and identifying the mistakes done by other peers.

Photographs

For any queries, please contact to below mail: praveena.m@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Retaining concepts by using Probing Questions

Faculty Name: Ms. M. Praveena
Class / Semester: I / II ECE A
Academic Year: 2022-23
Subject Name: Electronic Devices & Circuits
Topic: Unit V (Special Purpose Diodes)

No. of students participated: 57

Brief Write-up (Not exceeding 200 Words)

This is a group activity wherein students confer among themselves over a particular diode for a period of 10min. They were given instructions of what type of questions will be asked. Then one group was selected and one by one every student needs to give a fact related to construction, working & applications related to the device they were allotted. All the other batches have to pay a close observation to what this batch is explaining and need to identify any faults in the facts they have explained. This procedure is repeated with all the other batches.

Objective:
This gives a wide range of scope to the students to discuss with their peers regarding the concepts and help them in better understanding the concepts because of these discussions in peer group and identifying the mistakes done by other peers.

For any queries, please contact to below mail: praveena.m@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women

Department of Electronics and Communication Engineering

Activity: Zigsaw Puzzle

Faculty Name: Dr J Naga Vishnu Vardhan

Class / Semester: II – I / ECE –B

Academic Year: 2022-23

Subject Name: Probability Theory and Stochastic Processes

Brief Write - Up

Topics studied in Unit-I are made like a flowchart (order of topics). This flowchart was printed on a paper and made into pieces. Students are divided into batches and have three students in each batch. Whichever team arranges the flowchart in less time but correctly and explain briefly were declared as winners

Objective:

Students will recall the concepts and also aware of the flow of topics and their inter connection

Photos:

Pieces in Zigsaw Manner

Trying to arrange

Finally in an Order

Winners: (Submit the puzzle in correct order in less time)

1st Position: Ms. S Joshitha (21WH1A0469), Ms. M Sweeja (21WH1A04A8), Ms. M Jahnavi (21WH1A0475)

2nd Position: Ms. M Sai Rushitha (21WH1A0489), Ms. P. Rishika (21WH1A04C8), Ms. P. Keerhti (21WH1A04D0)

For any Queries, please contact: vishnu.j@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women

Department of Electronics and Communication Engineering

Activity: Techno Crossword

Faculty Name: Dr J Naga Vishnu Vardhan

Class / Semester: II – I / ECE –B

Academic Year: 2022-23

Subject Name: Probability Theory and Stochastic Processes

Brief Write - Up

Topics studied in Unit-II are made like a Techno Crossword. Students are divided into batches and have two students in each batch. Whichever team completes the crossword in less time but correctly were declared as winners

Objective:

Students will recall the concepts and can know the name and how to fit it in the boxes provided for the statement given

Photos:

Students working on Techno Crossword

Student Teams

Winners: (All correct and in less time)

1st Position: Ms. N. Manasa (21WH1A04B6) and Ms. RAmruthalasya (21WH1A04B5)

2nd Position: Ms. P Sripthi (21WH1A04C9) and Ms. M Srivally (21WH1A04A3)

For any Queries, please contact: vishnu.j@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women

Department of Electronics and Communication Engineering

Activity: Practical Demonstration of plotting Radiation Pattern for Various antennas

Faculty Name: Dr J Naga Vishnu Vardhan

Class / Semester: III – II / ECE –B

Academic Year: 2022-23

Subject Name: Antennas and Propagation

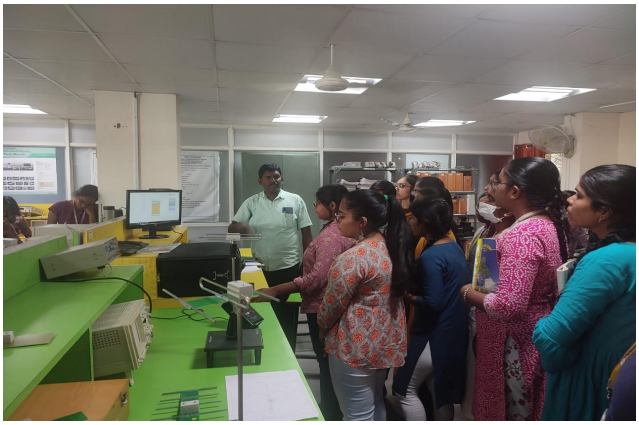
Brief Write - Up

Students were taken to Communication Lab and shown different types of antennas like simple dipole, folded dipole, yagi-uda, array, loop, rhombus, log periodic etc. Students were shown practically how current reception varies when transmitting antenna is rotated in 360^{o} keep receiving antenna constant. From the readings noted (angle (θ) and current (in μA), polar plot was drawn using the software. From the plot students are able to find and understand various parameters

Objective: To understand the radiation pattern of various antennas and how the parameters varies

Photos:

Antenna Working Mechanism Demonstration



Plotting Radiation Pattern using software – Explanation by Mr. Prasad, Lab technician

For any Queries, please contact: vishnu.j@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women

Department of Electronics and Communication Engineering

Activity: What's Next?

Faculty Name: Dr J Naga Vishnu Vardhan

Class / Semester : III – II / ECE –B

Academic Year: 2022-23

Subject Name: Antennas and Propagation

Brief Write - Up

Process: Students are taken to the library and asked them to go through the magazines available to know the research work related to Antennas, their usage in various applications. It also give some insight of the opportunities in various fields and also what they are going to learn further in the class with the concepts taught

Objective: To know the research going on and the opportunities in Antenna domain

Photos:

For any Queries, please contact: vishnu.j@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

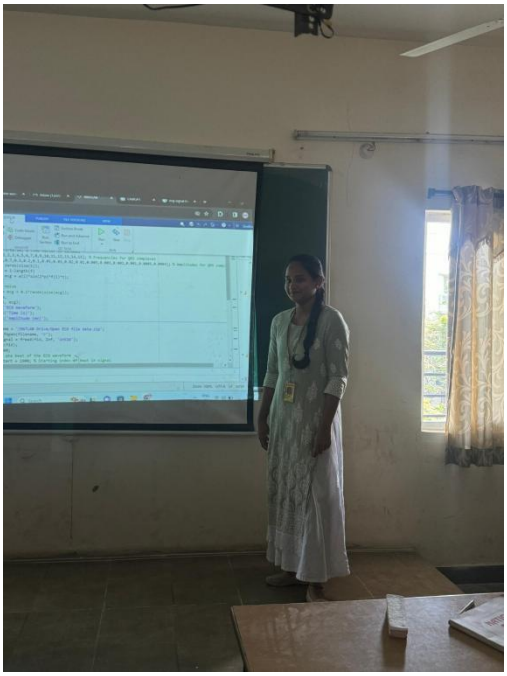
Name of the Activity: Assesment on DFT and FFT in Digital Signal Processing
Faculty Name: Dr. V. Santhosh Kumar
Class/ Semester: III/II ECE B
Academic Year: 2022-23
Subject Name: DSP

Objectives of the Activity:

To reinforce theoretical concepts of DFT and FFT.
To understand the computational efficiency differences between DFT and FFT.
To apply these techniques in real-world signal processing scenarios.

Description of the Activity:

This report documents an activity conducted with third-year Electronics and Communication Engineering (ECE) students to assess their understanding and application of Digital Signal Processing (DSP) concepts, particularly focusing on the Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT). The activity aimed to bridge theoretical knowledge with practical application, enhancing students' competency in these fundamental DSP techniques.



Number of students involved: 60
Date of the activity: 27/05/2023
For any Queries, please contact: santhosh.v@bvrithyderabad.edu.in

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BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Practical Demonstration of plotting Radiation Pattern for Various antennas

Faculty Name: Ms. Rama Lakshmi G
Class / Semester: III/II ECE A
Academic Year: 2022-23
Subject Name: Antennas and Wave Propagation
Topic: Radiation Pattern of Various Antennas
Students participated: 54 Students

Brief Write-up

This experiment explores the radiation characteristics of different antenna structures using MATLAB and its Antenna Toolbox. The primary focus is to visualize and analyze how antenna type, geometry, and configuration affect the radiation pattern, gain, beamwidth, and directivity.
A variety of antennas including half-wave dipole, rectangular patch, uniform linear array (ULA), and circular array are modeled. Each antenna's 3D and 2D radiation patterns are simulated at standard operating frequencies (e.g., 2.45 GHz and 3 GHz). The results highlight key differences in directional properties and performance metrics.
This activity provides an interactive learning experience in electromagnetic wave propagation, practical antenna design, and pattern analysis — essential concepts for wireless communication and RF engineering.

Objective:
To reinforce key technical terms and concepts through an engaging and collaborative solving activity.

Photographs

Antenna Type	Main Lobe Direction	Beamwidth	Gain (approx.)	Notes
Dipole	Broadside (90°)	Wide	~2.15 dBi	Symmetric pattern
Patch Antenna	Perpendicular	Medium	~6-8 dBi	Directional
ULA (8 Elements)	Steered Broadside	Narrow	~10-12 dBi	High directivity
Circular Array	Omnidirectional	Varies	~6-8 dBi	Suitable for 360°

For any queries, please contact to below mail: ramalakshmi.g@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Techno Crossword

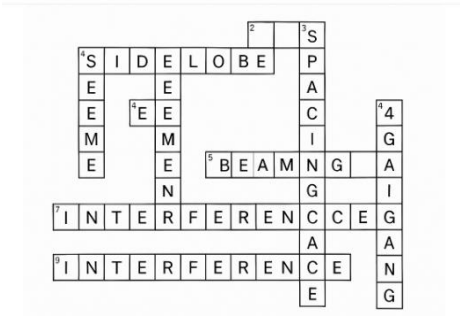
Faculty Name: Ms. Rama Lakshmi G
Class / Semester: III/II ECE A
Academic Year: 2022-23
Subject Name: Antennas and Wave Propagation
Topic: Techno Crossword
Student participated: 47

Brief Write-up (Not exceeding 200 Words)

The *Techno Crossword* is a gamified learning activity where participants solve a crossword puzzle filled with terms related to technology, engineering, and innovation. This activity encourages students to recall definitions, applications, and abbreviations commonly used in their field of study (e.g., IoT, AI, Electronics, Programming, Cybersecurity, etc.).
Participants work individually or in teams to complete the crossword based on a set of clues — either definitions, use-cases, or technical synonyms. It promotes critical thinking, teamwork, vocabulary building, and content retention in a fun, low-pressure environment.

Objective:
To reinforce key technical terms and concepts through an engaging and collaborative puzzle-solving activity.

Photographs



For any queries, please contact to below mail: ramalakshmi.g@bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women

Department of Electronics and Communication Engineering

Activity: Animation

Faculty Name: Mr.N.M.Sai Krishna

Class: III – II / ECE – A & B

Academic Year: 2022-23

Subject Name: VLSI Design

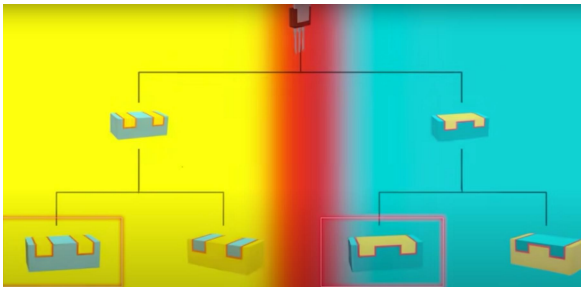
Topic: MOSFET

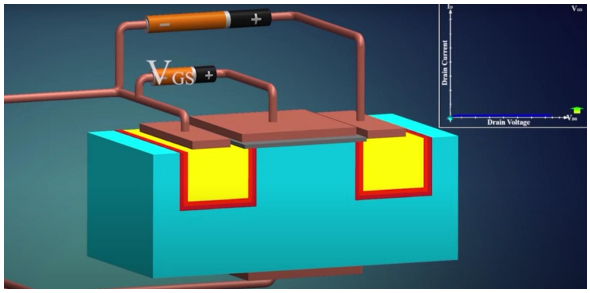
Date: 20-02-2023

Brief Write - Up

The session on the working of E-MOSFETs for 132 students used an animation-based approach to make the concept easier to understand. It started with a brief explanation of E-MOSFETs, their structure, and applications, followed by an animation that showed how the device operates. The animation explained the formation of the conductive channel, the role of the insulating oxide layer, and how the drain current changes with gate-to-source voltage. Students were encouraged to ask questions and participate in discussions to clarify their doubts. After the animation, they worked in groups to solve simple problems related to E-MOSFETs, helping them connect theory with practical applications. By the end of the session, students had a clear understanding of the topic and could confidently explain how an E-MOSFET works. The use of animation made the learning process engaging and effective.

Photo(s):





Impact: This activity boosted their confidence in innovation and prepared them for real-world problem-solving, making learning more engaging and effective.

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Code Analysis

Faculty Name: Mr.P.Rajesh Kumar
Class / Semester: III/II EEE
Academic Year: 2022-23
Subject Name: Microprocessors & Microcontrollers
Topic: Unit II (8051 Microcontroller – Architecture, Instruction set and Addressing Modes)

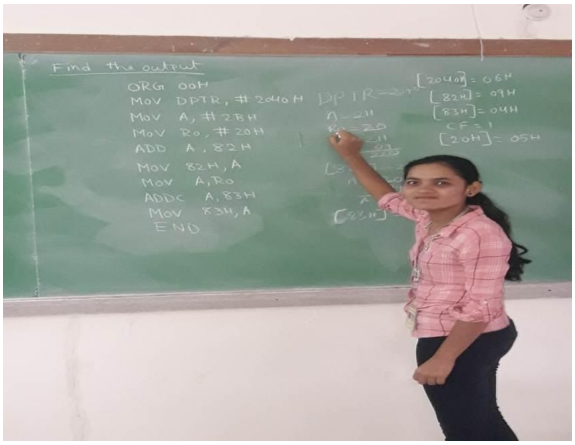
Brief Write-up

In this activity programs are given on the black board and students are asked to analyse various Assembly language programs. They have to explain the instructions line by line and write the output line by line. Based on the program output they will identify the program purpose. Marks are assigned based on their explanation and correct output.

Objective:

This gives interest to the students in Assembly Language programming and to discuss with their peers regarding the programs and help them in better understanding the programs.

Photographs



BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Padlet

Faculty Name: Mr.P.Rajesh kumar
Class / Semester: IV/I CSE A
Academic Year: 2022-23
Subject Name: Electronic Sensors
Topic: Unit II Thermal Sensors

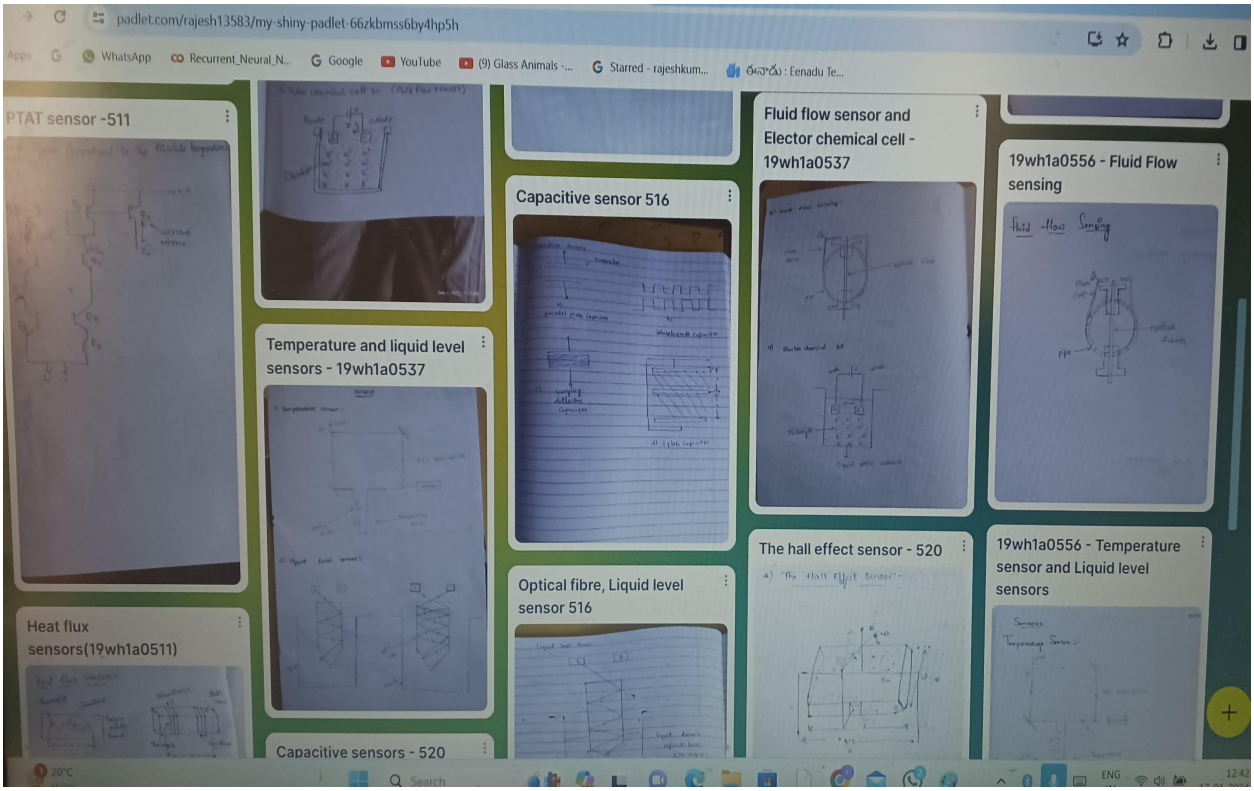
Brief Write-up

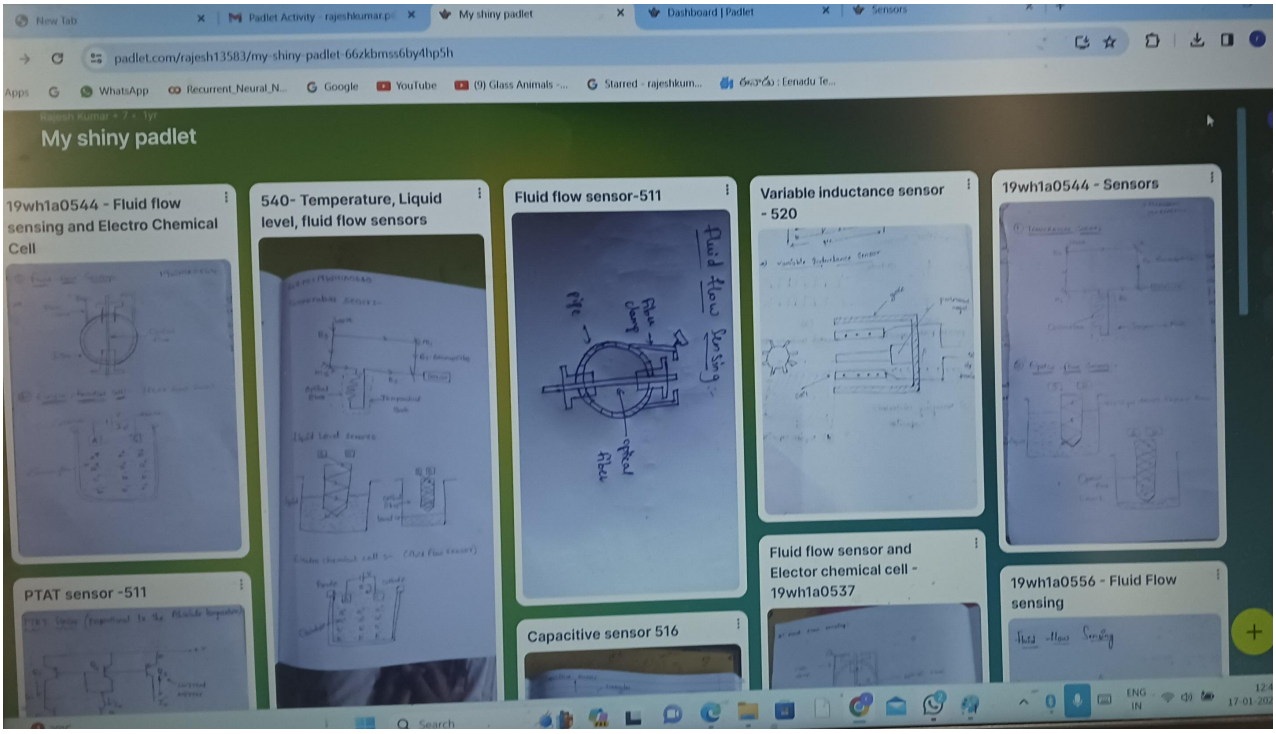
In this activity students are given various sensors topics and are asked to draw the diagrams of various sensors related to the topic. The drawn figures are taken picture using mobile phones. Then students will log into the padlet website using the link shared through mail. After logging into padlet the students will upload their images with their names using the add button .The added images can be seen by all the students.

Objective:

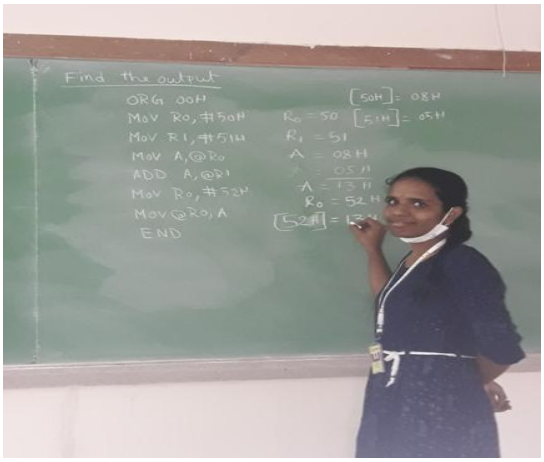
This activity gives practice for drawing various sensors in the examination point of view and gives usage of technology to share their work with others .Multiple people data can be visualized at the same time through a common platform

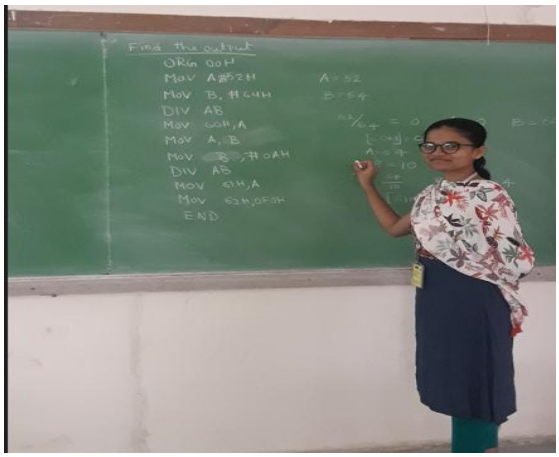
Photographs





For any queries, please contact to below mail: rajeshkumar.p@bvrithyderabad.edu.in





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BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Simulation Project

Faculty Name: Mr.R.Priyakanth
Class / Semester: II/I ECE A
Academic Year: 2022-23
Subject Name: Signals and Systems
Topic: Unit II (Fourier Transforms)

Brief Write-up (Not exceeding 200 Words)

This individualized project involves students actively engaging in real-time analysis to ascertain the dominant frequency within their own voice signals. Through practical application, students will gain valuable insights into signal processing techniques, honing their skills in a hands-on manner. This endeavor not only fosters a deeper understanding of the subject matter but also promotes independent learning and technical proficiency.

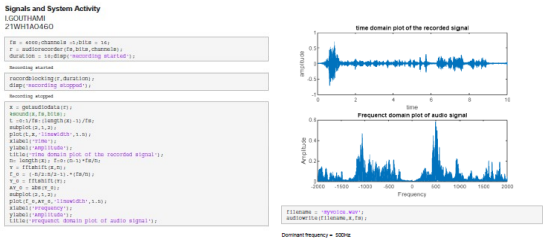
Objective:
Identifying the dominant frequency in a real-time voice signal is crucial in communications engineering for various reasons. Firstly, it facilitates efficient signal processing, enabling the removal of unwanted noise and enhancing the overall quality of voice communication. Secondly, in applications like voice coding and modulation, knowledge of the dominant frequency assists in optimizing bandwidth utilization, leading to more effective data transmission.

Submissions link

https://drive.google.com/drive/folders/1OjSAVQH_QJtgmjAup0PBWTXZFW87xift?usp=sharing

Evaluation is done based on the rubrics

Criteria	5 Marks (Excellent)	4 Marks (Good)	3 Marks (Moderate)	2 Marks (Basic)	1 Mark (Limited)
Implementation Proficiency	Successfully implements techniques with expertise.	Demonstrates effective application with minor gaps.	Reasonable understanding with some execution issues.	Limited proficiency with noticeable difficulties.	Minimal understanding, significant execution issues.
Data Interpretation and Conclusions	Accurately interprets data, providing insightful insights.	Exhibits reasonable interpretation skills.	Basic data interpretation with room for improvement.	Limited ability to draw conclusions from the results.	Significant difficulty in drawing meaningful conclusions.



For any queries, please contact to below mail: priyakanth.r@bvrithyderabad.edu.in

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BVRIT H
Estd. 2012

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: MATLAB Activity

Faculty Name: Mr.R.Priyakanth
Class / Semester: II/I ECE A
Academic Year: 2022-23
Subject Name: Electromagnetic Fields and Waves
Topic: Unit V (Rectangular Waveguides)

Brief Write-up (Not exceeding 200 Words)

In this MATLAB activity, students will explore electromagnetic field theory by simulating the fields within rectangular waveguides. Rectangular waveguides are vital components in microwave engineering and communication systems, necessitating a deep understanding of their field distributions for effective signal transmission. Using MATLAB, students will investigate the behavior of electric and magnetic fields within waveguides. They will manipulate parameters such as frequency, dimensions, etc., to observe how these factors affect wave propagation. This hands-on approach will enhance students' comprehension of electromagnetic theory and its practical relevance in engineering and technology.

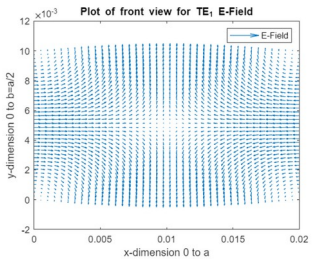
Objective:

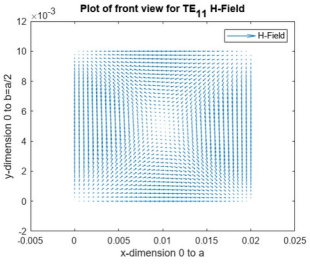
To make the students explore the behaviour of electric and magnetic fields within waveguides, enhancing their comprehension of wave propagation principles.

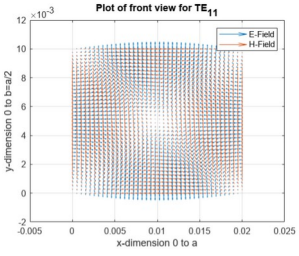
Screenshots

```
% Wave propagation in Z-Direction
%**********************************
fc = (c/2)*sqrt((m/a).^2+(n/b).^2);   % Cutoff frequency calculation in GHz
% lambda = 2*a;                       %for TE10 mode
lambda = c/fc;                  % Wavelength in m
epsilon = 8.8540e-12;             % Permittivity constant
epsilon_r = 1;                    % Relative Permittivity constant
mu1 = 4*pi*10e-7;                 % Permeability constant
mu1_r = 1;                        % Relative Permeability constant
omega = 2*pi*f;                   % Frequency of operation in rad/s
M = 40;                           % Number of points to be plotted
beta = omega*(sqrt(mu1*epsilon));


Bx = m*pi/a;    %Beta(x)
By = n*pi/b;    %Beta(y)
Bc = sqrt(Bx.^2+By.^2); %Beta(c), cutoff wavenumber
Bz = sqrt(beta.^2-Bc.^2);
% Define the spatial grid
x = linspace(0, a, 400);
y = linspace(0, b, 200);
[X, Y] = meshgrid(x, y);
                  % Number of points to be poltted
%Front view
z = 0;
x = linspace(0,a,M);
y = linspace(0,b,M);
[x,y] = meshgrid(x,y);
```







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BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Think Pair and Share, Brainstorming

Faculty Name: Dr. Anwar Bhasha Pattan

Class: III – II / ECE –A

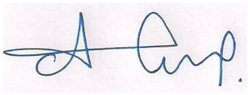
Academic Year: 2022-23

Subject Name: Embedded System Design

Topic: Scheduling Algorithms

Brief Write up:

This is an activity where the students have to think, discuss among themselves as small teams and share their understanding on the given topic. Here each group is given a scheduling algorithm, to discuss various scenarios where that particular scheduling algorithm is best suitable to implement, its pros and cons, etc. After some time, each team will present about it to all the remaining students. This way a deep revision of one algorithm and understanding of remaining algorithms happen to all the students.



Faculty Sign

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BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Revision by framing questions

Faculty Name: Dr. Anwar Bhasha Pattan

Class: III – II / ECE –A

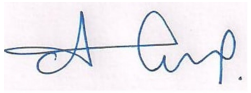
Academic Year: 2022-23

Subject Name: Embedded System Design

Topic: Embedded System Basics and Hardware

Brief Write - Up

In this activity students in the same bench are grouped (2 or 3). They have to create a question and ask the remaining students. The other groups can answer the question. In this way all the groups have to come up with a new question which should not be previously asked. In this activity all the students will revise the topics to form a new question, the difficulty in preparing questions will be increased when more number of groups asked the questions already. It will be a fun and challenging task yet help the students revise the topics.



Faculty Sign

BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Team Quiz and identification

Faculty Name: Saikumar Tara
Class / Semester: II/II ECE B
Academic Year: 2022-2023
Subject Name: EMFW
Topic: Fields and its application (Gauss Law)

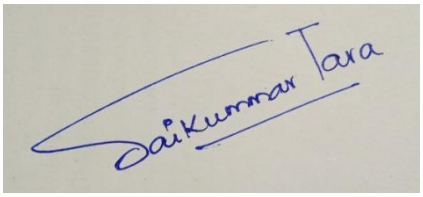
Brief Write-up (Not exceeding 200 Words)

This is a group activity wherein students confer among themselves over a concept on which they were asked to give their views. The activity which was conducted for the students in open air to test the concept which was learned in the class room .The idea of the activity is to work on the team with good knowledge about the concise topics.

Objective:

This gives a wide range of scope to the students to discuss with their peers regarding the concepts and help them in better understanding the concepts because of these discussions in peer group and identifying the mistakes done by other peers.

Photographs:



BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Game Play

Faculty Name: Saikumar Tara
Class / Semester: II/I ECE A
Academic Year: 2022-2023
Subject Name: PTSP
Topic: Concept of Dice and Coin

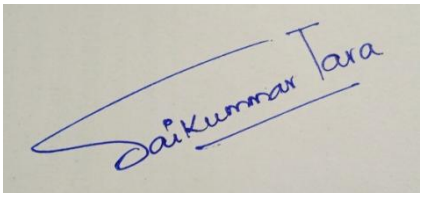
Brief Write-up (Not exceeding 200 Words)

This is a group activity wherein students confer among themselves over a concept on which they were asked to give their views. The activity which was conducted for the students in open air to test the concept which was learned in the class room .The idea of the activity is to work on the team with good knowledge about the concise topics.

Objective:

This gives a wide range of scope to the students to discuss with their peers regarding the concepts and help them in better understanding the concepts because of these discussions in peer group and identifying the mistakes done by other peers.

Photographs:



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Department of Electronics and Communication Engineering

Name of the Activity: Think pair Share

Faculty Name: Saikumar Tara
Class / Semester: II/I ECE B
Academic Year: 2023-2024
Subject Name: Signals and Systems
Topic: Fourier Transforms and Fourier Series

Brief Write-up (Not exceeding 200 Words)

This is a group activity wherein students confer among themselves over a concept on which they were asked to give their views. The activity which was conducted for the students to enrich the concept which was learned in the class room .The idea of the activity is to teach a topic among the peers in the side by and educate each others

Objective:

This gives a wide range of scope to the students to discuss with their peers regarding the concepts and help them in better understanding the concepts because of these discussions in peer group and identifying the mistakes done by other peers.

Photographs







2023/11


BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Team Quiz

Faculty Name: Saikumar Tara
Class / Semester: II/I ECE B
Academic Year: 2023-2024
Subject Name: Signals and Systems
Topic: Laplace Transform, Z-Transform and Correlation and Convolution

Brief Write-up (Not exceeding 200 Words)

This is a group activity wherein students confer among themselves over a concept on which they were asked to give their views. The activity which was conducted for the students in open air to test the concept which was learned in the class room .The idea of the activity is to work on the team with good knowledge about the concise topics.

Objective:

This gives a wide range of scope to the students to discuss with their peers regarding the concepts and help them in better understanding the concepts because of these discussions in peer group and identifying the mistakes done by other peers.

Photographs: