



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

Name of the Activity: Lab into Class

Faculty Name: Mr. R.Priyakanth

Class / Semester: III - II

Academic Year : 2019-20

Subject Name: Digital Signal Processing

Topic: *Filter Design in Digital Signal Processing*

Brief Write-up (Not exceeding 200 Words)

The teacher will review and compare the results of micromodeler using MATLAB and present materials to the whole class. Teacher to provide instructions on how to give the inputs for filter design to generate the time and frequency response and the web links to the resources provided to students. (15 minutes)
Students are given time to complete the lesson activities. (35 minutes)

Intended Curriculum Learning Outcomes

- Students will visualize the transfer function of any filter
- Students will analyze the stability of the filter through pole-zero plot
- Students will have the opportunity to spend time in designing the filter structure
- Students will learn how to generate the code for the filter design

Resources/Technology – Students

Computer Lab or Student Laptop setting with personal access to the Internet

Filter Design and Analysis

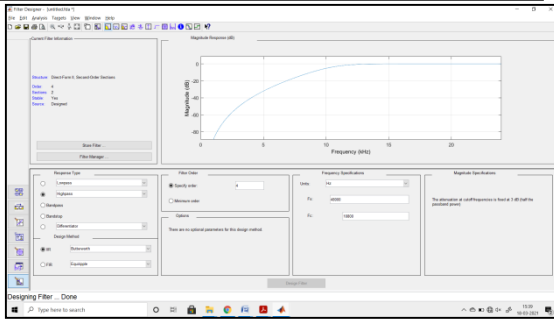
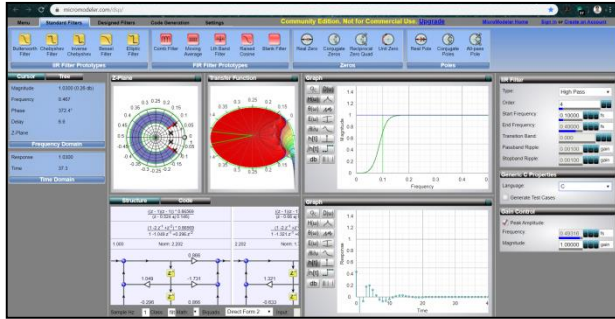
Interactive Filter Design - Online Resources

- <https://www.micromodeler.com/dsp/> “Interactive Filter Designer”
- <https://matlab.mathworks.com/> (“filterDesigner” tool in Online MATLAB)

Objective:

To provide students with an opportunity to analyze the frequency response of digital filters using MATLAB and Online interactive tools.

Photographs



For any queries, please contact to below mail

priyakanth.r@bvrithyderabad.edu.in



**BVRIT HYDERABAD College of Engineering for Women
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Name of the Activity: Technical Treasure Hunt

Faculty Name: V. Hindumathi
Class / Semester: III ECE B /I Semester
Academic Year: 2019-20
Subject Name: Digital Communications
Topic: Units- I,II & III

Brief Write-up (Not exceeding 200 Words)

It was a time bound activity and the overall class is divided into a number of teams. The team that would gather all the clues and use their collective brainpower to solve clues to reach their goal, first would be declared as a winner.

Objective: To improve the communication skills, interaction and leadership skills of students.

Photographs:



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Name of the Activity: Word Connect

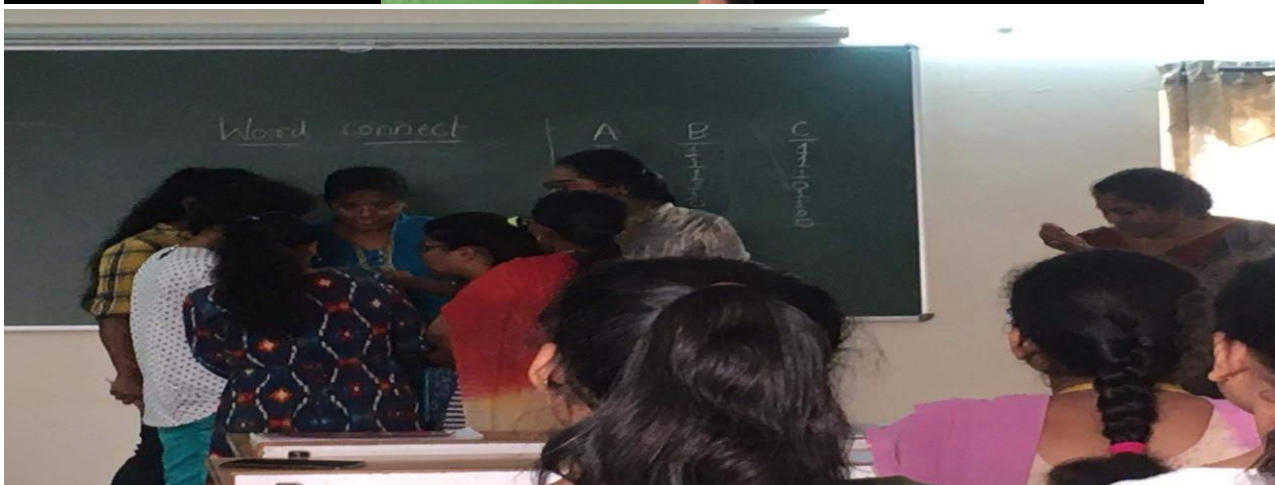
Faculty Name: V. Hindumathi
Class / Semester: III ECE B / I Semester
Academic Year: 2019-20
Subject Name: Digital Communications
Topic: Overall Syllabus

Brief Write-up (Not exceeding 200 Words)

Students were divided into 3 groups. It is like a normal quiz except when the group answering for the current question need to repeat previous all answers also.

Objective: To improve the memory power and also to test the student's confidence in the content / knowledge of a subject

Photographs:



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Name of the Activity: Mind Map

Faculty Name: Rama Lakshmi G
Class / Semester: IV-I
Academic Year: 2019-20
Subject Name: Microwave Engineering
Topic: Microwave tubes

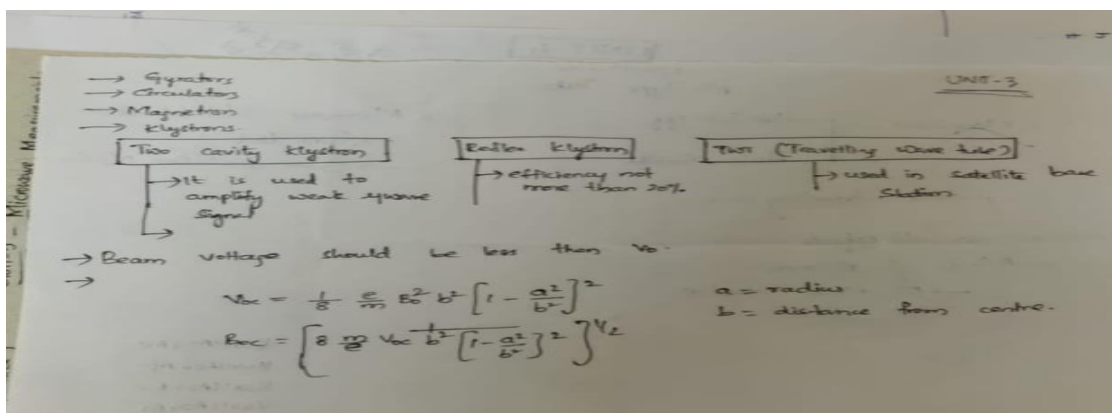
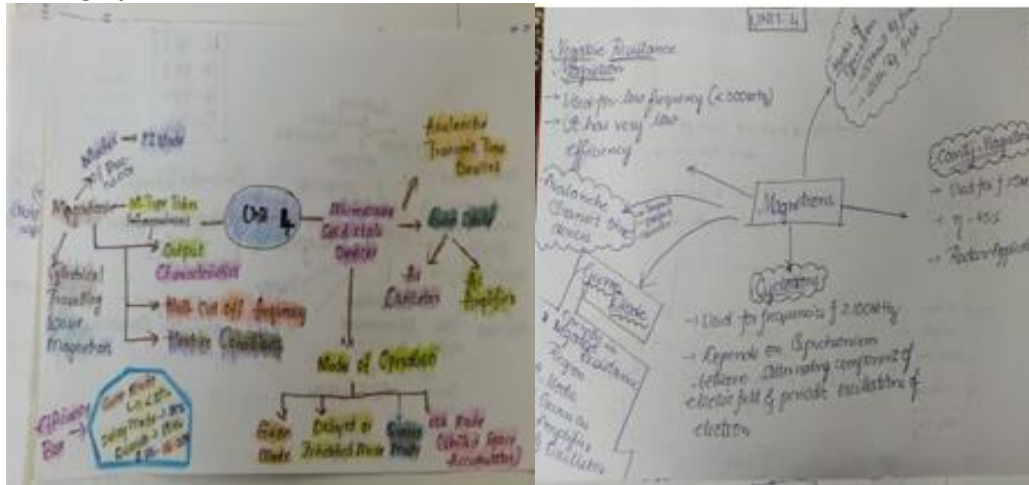
Brief Write-up (Not exceeding 200 Words)

To complete the activity student need to revise Microwave tubes concepts and represent in the mapping. The complete details of O and M tubes working and application are presented.

Objective:

Able to understand the concepts of microwave engineering tubes.

Photographs





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Name of the Activity: Quiz

Faculty Name: Rama Lakshmi G
Class / Semester: IV-I
Academic Year: 2019-20
Subject Name: Microwave Engineering
Topic: Linear tubes

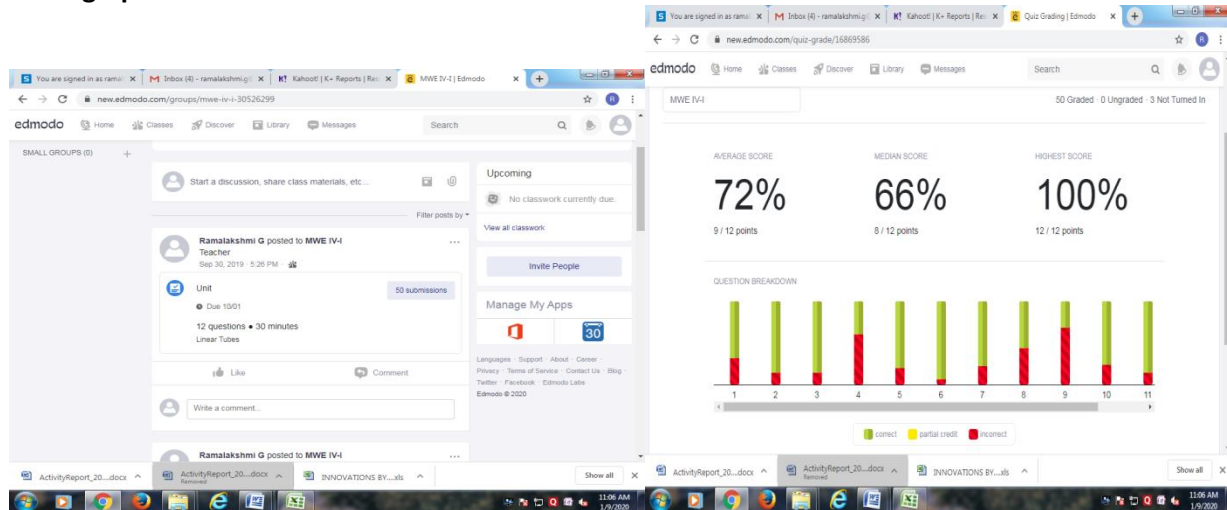
Brief Write-up (Not exceeding 200 Words)

To complete the activity student need to revise linear tubes concepts and represent in the mapping. The complete details of O-tubes working and application are presented. This work is conducted using Edmodo platform

Objective:

To assess the performance of students in microwave engineering tubes concept.

Photographs



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**BVRIT HYDERABAD College of Engineering for Women
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Name of the Activity: Chart Preparation

Faculty Name: P. Rajeshkumar

Class / Semester: II ECE A I Semester

Academic Year 2019-20

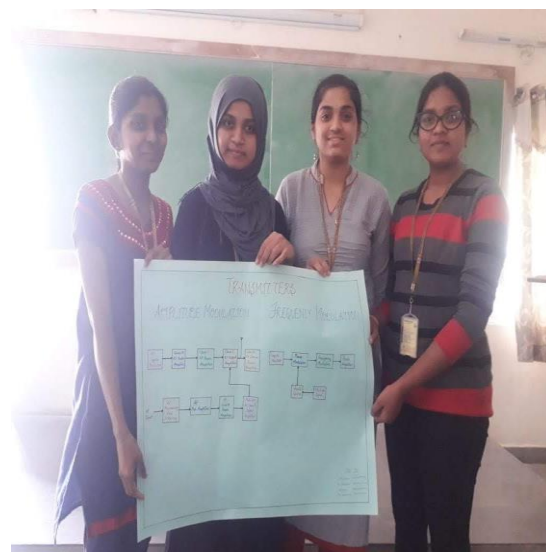
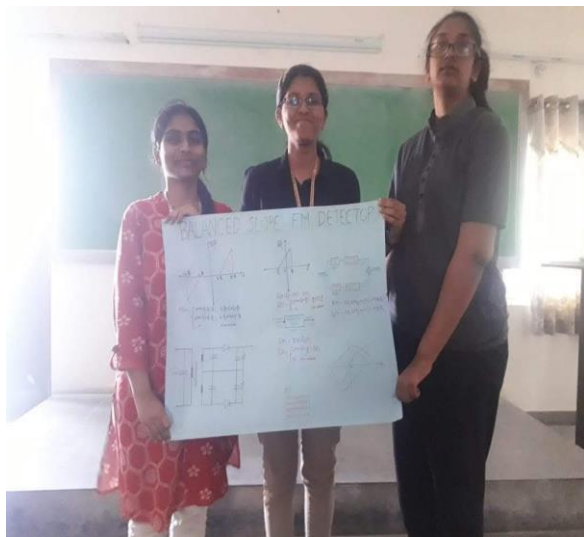
Subject Name: Analog and Digital Communications

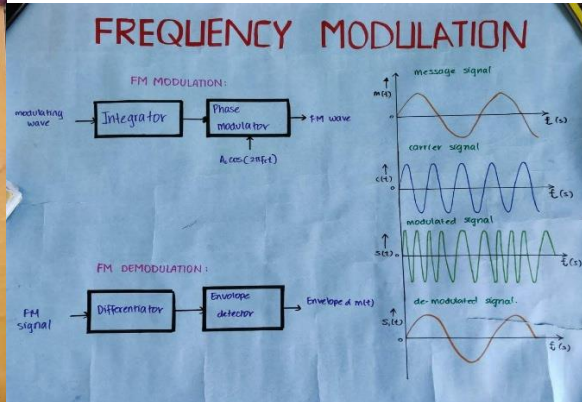
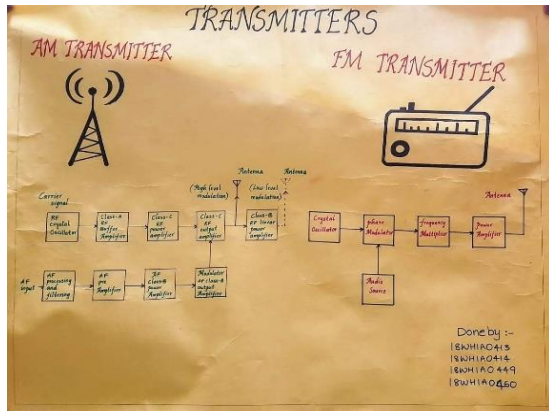
Topic: AM and FM Transmitters

Students are divided into groups and asked to come up with charts, color pens, pencils etc. Various topics related to AM and FM Transmitters are given to students and asked to draw diagrams related to the topic. Students have drawn various diagrams related to AM and FM Transmitters. Then students are asked to explain the charts prepared by them.

Objective: To improve the drawing skills in the students and to represent the technical topics diagrammatically.

Photographs





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Name of the Activity: Student Seminars

Faculty Name: G Siva Sankar Varma

Class / Semester: II ECE (B) / II Sem

Academic Year: 2019-20

Subject Name: Electronic Circuit Analysis

Topic: Unit- I of ECA – Finding Ai, Av,Zi and Yo using Exact Hybrid analysis.

Brief Write-up (Not exceeding 200 Words):

Students presented seminars on Finding Ai, Av,Zi and Yo using Exact Hybrid analysis from Unit 1 of ECA.

SL No	Roll No	Name of the student	Topic Name
1	18WH1A0465	Sabavat Swapna	Exact Hybrid analysis of CB Config
2	18WH1A0475	Chigurupati Sai Swapna Sri	Finding Ai
3	18WH1A0481	Gutha srivini	Finding Zi
4	18WH1A04A2	V Roshini	Finding AV
5	18WH1A04A5	Sai Pratyusha Nandula	Exact Hybrid analysis of CE Config
6	18WH1A04B1	Uppalapati Sai sri Varsha	Finding Yo

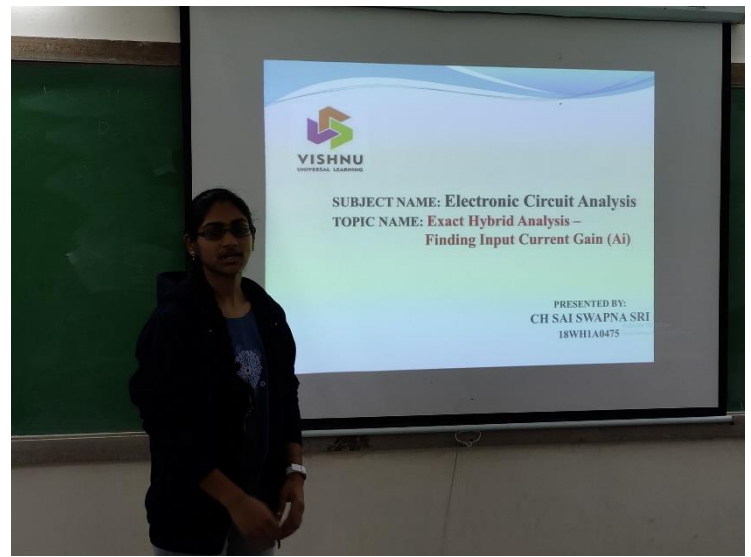
Objective:

To improve communication skills, gaining expert knowledge, motivation and confidence.

Photographs:



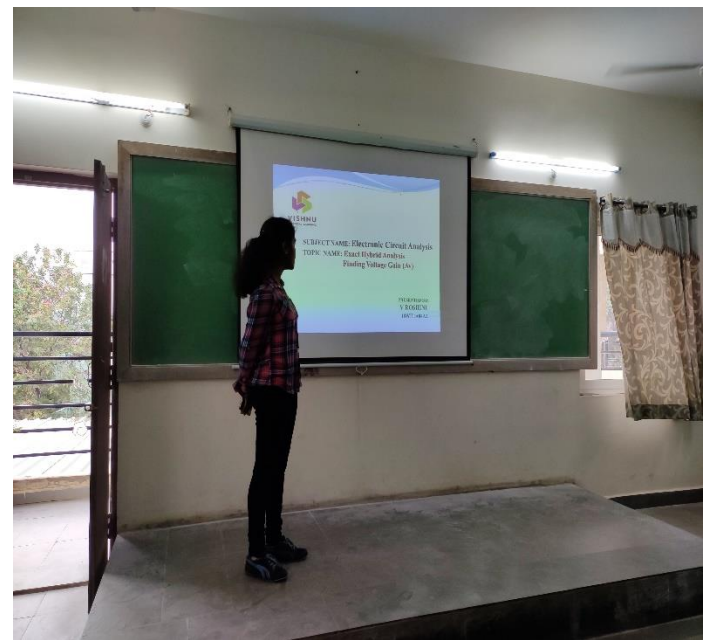
Sabavat Swapna



CH. Swapna Sri



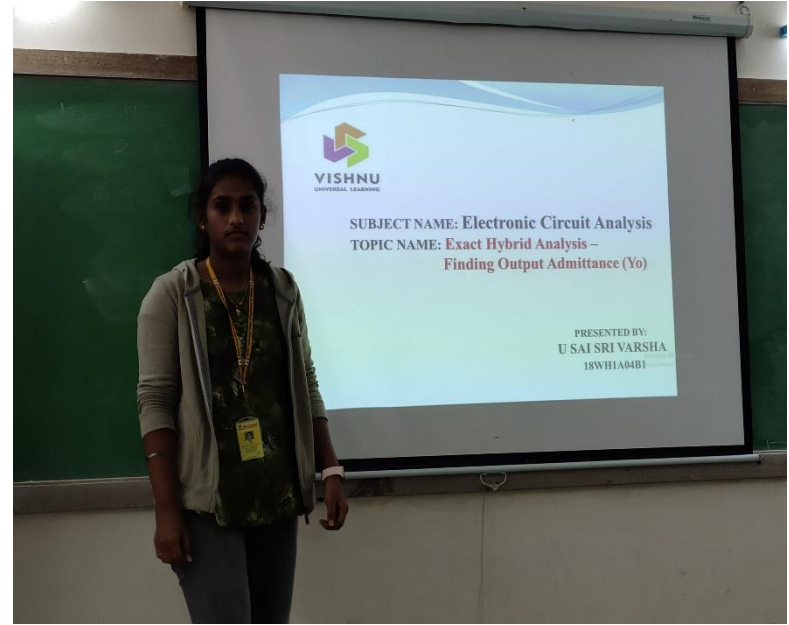
G. Sri Vini



V. Roshini



N. Sai Pratyusha



U. Sai Sri Varsha

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sivasankar.g@bvrithyderabad.edu.in

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Name of the Activity: Seminars

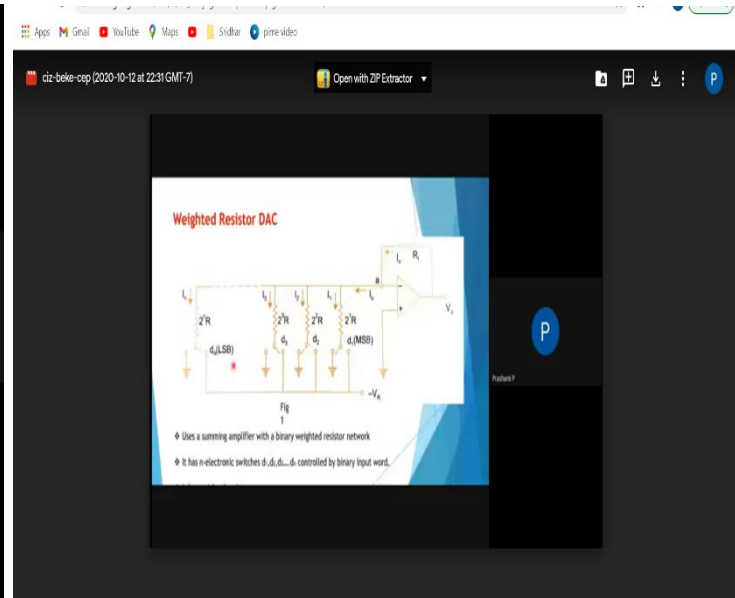
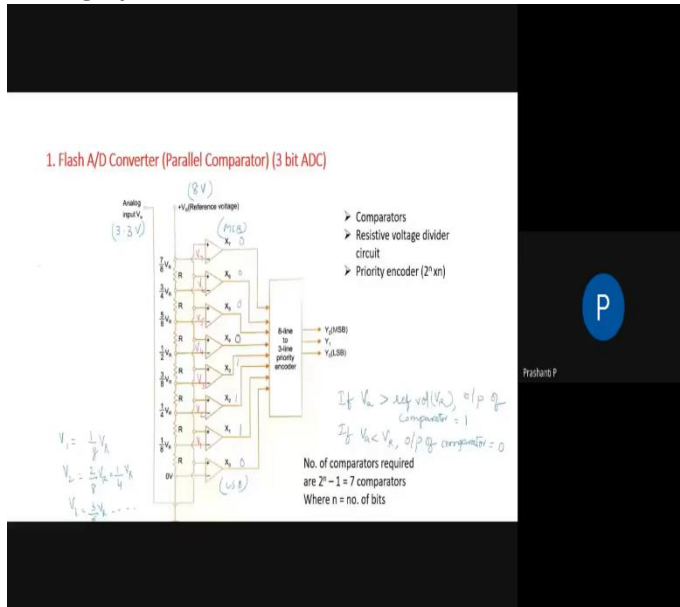
Faculty Name: P.Prashanti
Class / Semester: II ECE A/II Semester
Academic Year: 2019-20
Subject Name: Linear IC Applications
Topic: A-D Converters

Brief Write-up (Not exceeding 200 Words)

Students were asked to give seminars online on the topic A-D Converters with the objective of developing confidence in them by improving their presentation skills. Total 4 students presented seminars on different A-D Converters

Objective: To improve the presentation and communication skills of students and develop confidence in them

Photographs



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prashanti.p@bvrithyderabad.edu.in



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Name of the Activity: Quiz

Faculty Name: Ms. R.Shylaja
Class / Semester: II ECE A & B / I SEM
Academic Year: 2019-2020
Subject Name: Signals and Systems
Topic: Prerequisite to the Subject

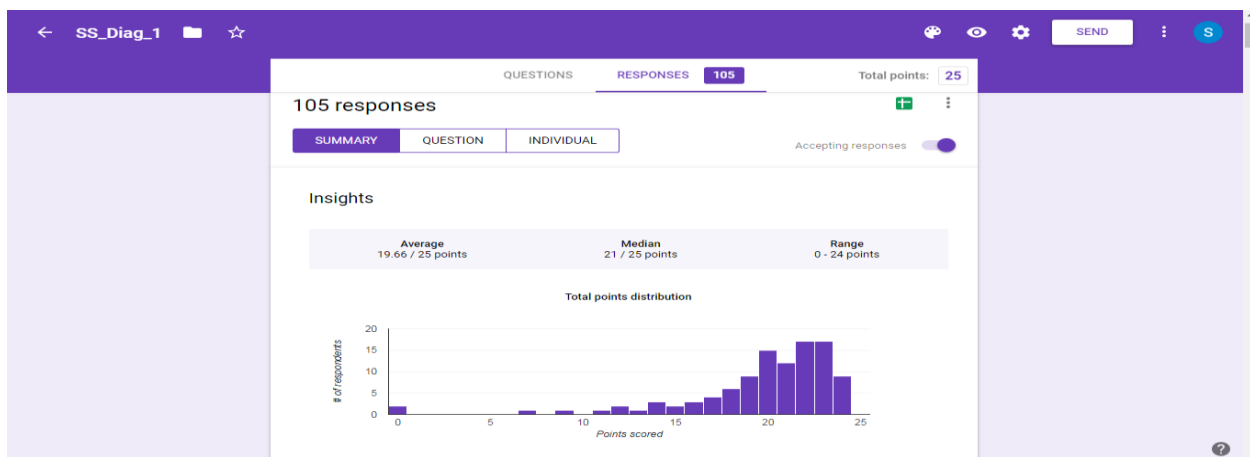
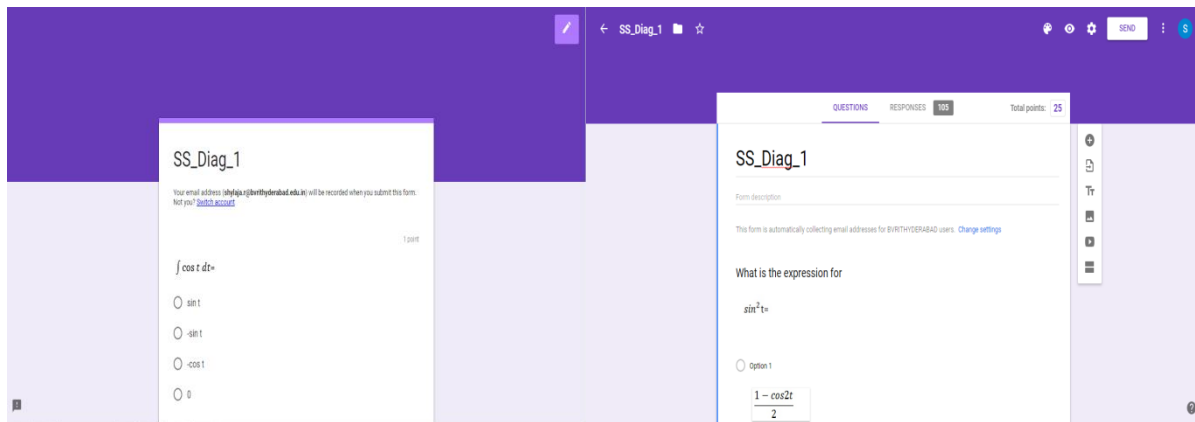
Brief Write-up (Not exceeding 200 Words)

A diagnostic test is taken in the form of quiz using Google Form on basic trigonometric formulas

Objective:

After this activity students are expected to be able to recollect the concepts required for understanding the subject

Photographs



Name of the Activity: Quizlet

Faculty Name: Ms.R.Shylaja
Class / Semester: II ECE A&B / I SEM
Academic Year: 2019-2020
Subject Name: Signals and Systems
Topic: Classification of Signals

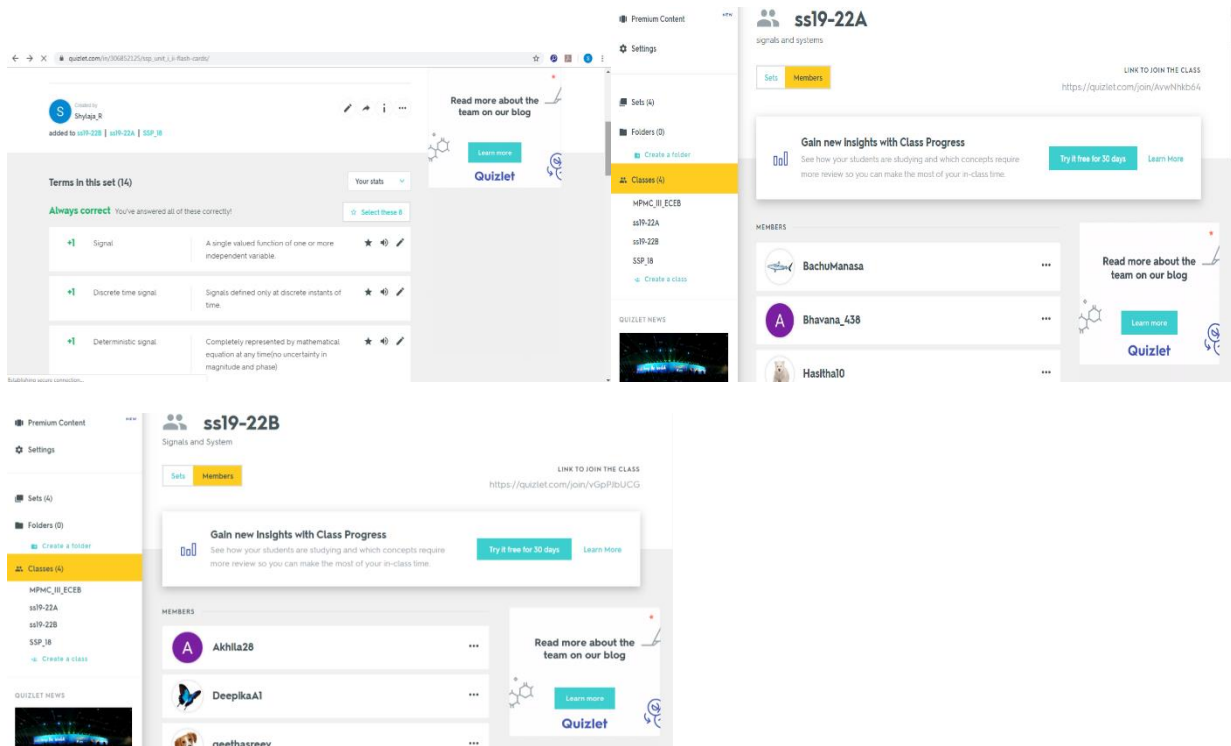
Brief Write-up (Not exceeding 200 Words)

Important definitions are given in the form of flashcards in Quizlet. Students should use the platform to learn and test themselves using different features of Quizlet.

Objective:

After this activity students are expected to be able to understand the meanings of different key terms

Photographs



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Name of the Activity: Role Play

Faculty Name: Radha Abburi
Class / Semester: III / II
Academic Year : 2019-20
Subject Name: MPMC
Topic: DIRECT MEMORY ACCESS

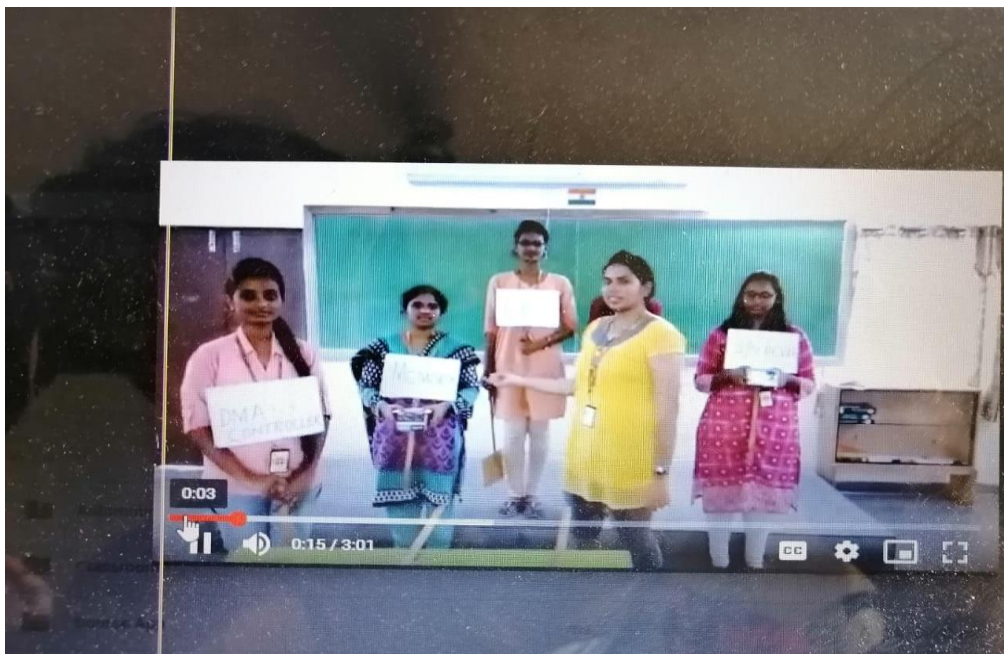
Brief Write-up (Not exceeding 200 Words)

Actions speak more than words. The process of Direct Memory Access was very well conveyed by their sequence of actions as a role play. To conduct this, the students were first divided into groups and were given different concepts to perform a role play. The best performance is appreciated.

Objective:

To make students understand the working of DMA Controller

Photographs



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