P.S.R. ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Approved by AICTE, New Delhi & Accredited by National Board of Accreditation (NBA)
Accredited by NAAC, Recognized under 12(B) of the UGC Act, 1956
Sevalpatti (P.O), Sivakasi - 626140. Tamilnadu.

DEPARTMENT OF ECE

INNOVATIVE PRACTICES

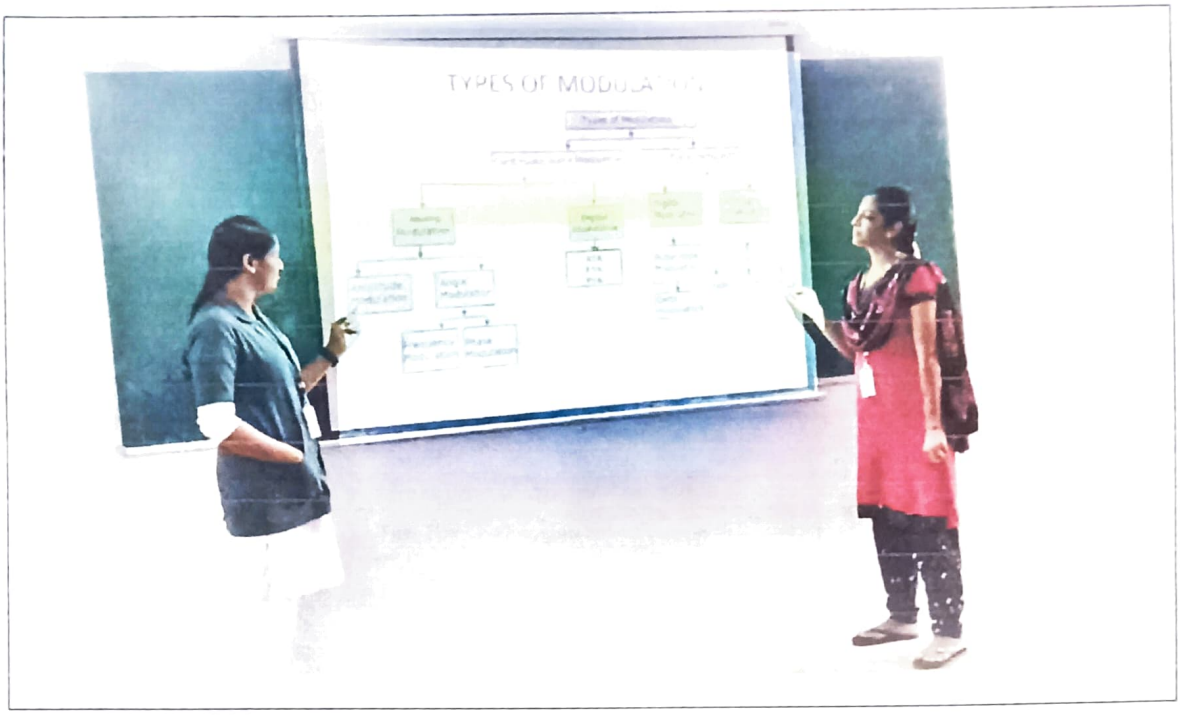
Programme	B.E.	Branch	Electronics and Communication Engineering
Academic Year	2022-2023	Year/Semester	III/V
Course Code	191EC51	Course Name	Analog & Digital Communication
Date of activity	16.08.22	Duration	40 mins
Course Tutor	Ms.M.Nandhini AP/ECE		

Unit / Topic	**Unit I / AMPLITUDE MODULATION**
Course Outcome	**CO1: Compare Various Modulation techniques(UN)**
Activity Chosen	**Peer Learning**
Activity Implementation	Peer Tutor(s): M.Marimuthu,S.Bharath Kumar One or more peer tutors (student) teaching the students in the class in a supervised environment which results in better learning and retention
Type of Activity	Individual/Group/Both

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO12	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3	3	2	3	3	2	2

Images / Screen shot of the practice:



Course Tutor **Programme Co-ordinator** **HOD/ECE**

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INNOVATIVE PRACTICES

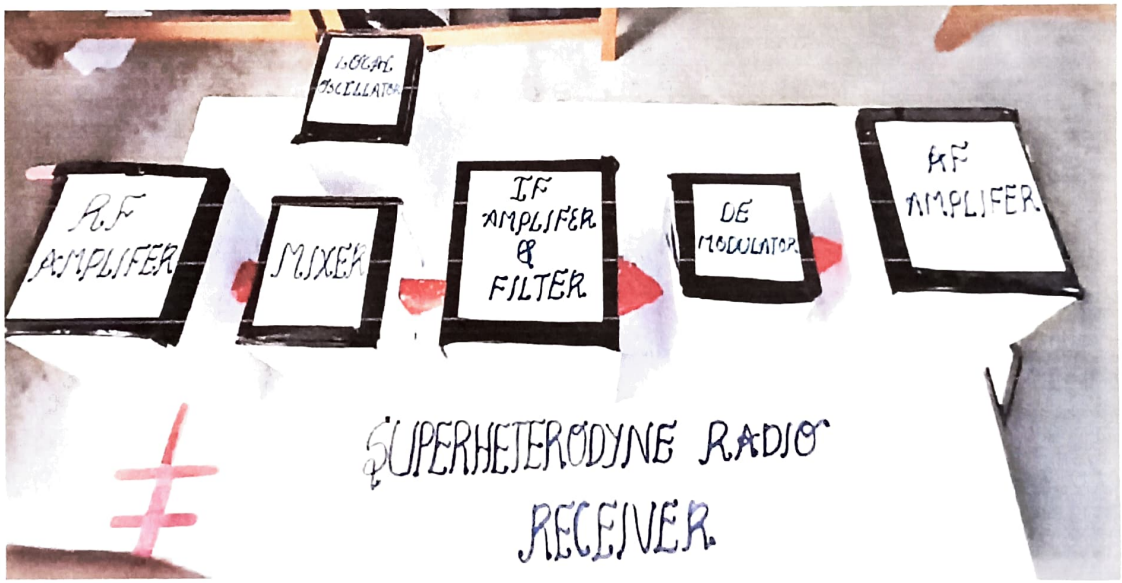
Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191EC51	Course Name	Analog & Digital Communication
Date of activity:	09.09.22	Duration	40 mins
Course Tutor:	Ms.M.Nandhini AP/ECE		

Unit / Topic	**Unit II/ ANGLE MODULATION**
Course Outcome	**CO2:Develop the various frequency modulation techniques(AP)**
Activity Chosen	**Model Demonstration**
Activity Implementation	**Bring the model made by students for demonstration. Students learnt about the characateristics of the Super-hetrodyne radio receiver.**
Type of Activity	~~Individual~~/Group/~~Both~~

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	2	3	2	2	2

Images / Screen shot of the practice:



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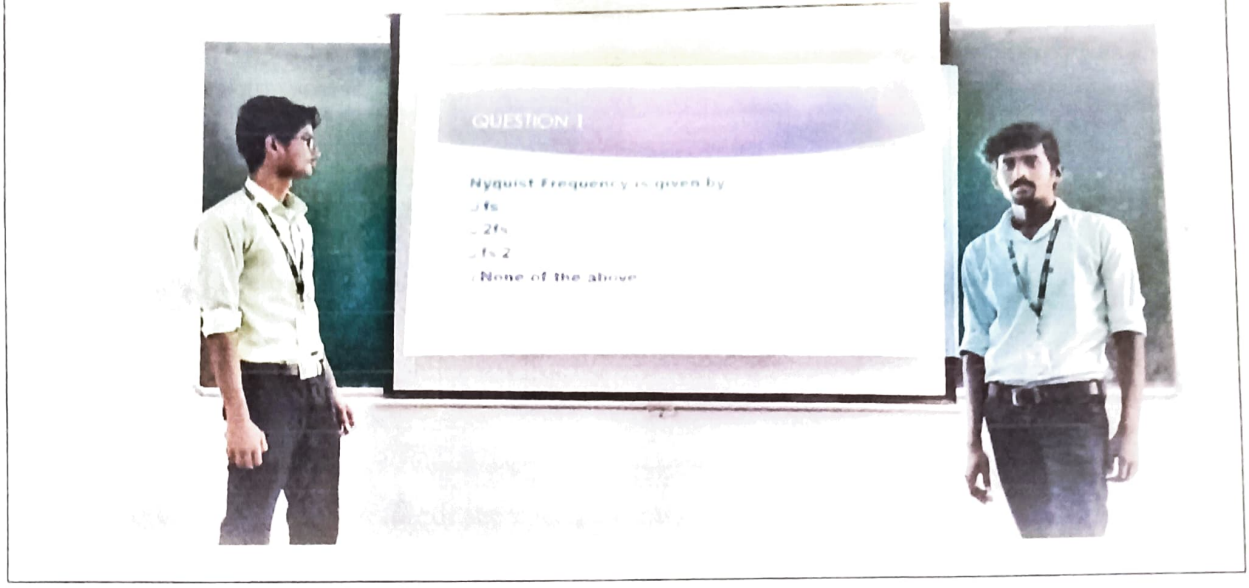
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191EC51	Course Name	Analog & Digital Communication
Date of activity:	20.09.22	Duration	40 mins
Course Tutor:	Ms.M.Nandhini AP/ECE		

Unit / Topic	**Unit III / DIGITAL TRANSMISSION AND DATA COMMUNICATION**
	CO3: Explain the different waveform encoding process (UN) **CO4:Develop the various techniques used in channel and source coding Process(AP).**
Activity Chosen	**Jeopardy**
Activity Implementation	Students form a group of 3 Teams such as A,B,C They discuss among themselves and answer the 'Jeopardy' questions.Team which uttered the right answer will score points.
Type of Activity	~~Individual~~/Group/~~Both~~

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO12	PSO1	PSO2	PSO3	PSO4
CO3	3	2	2	2	3	2	2	2	3	3	2	2

Images / Screen shot of the practice:



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Academic Year	2022-2023	Year/Semester	III/V
Course Code	191EC51	Course Name	Analog & Digital Communication
Date of activity	14.10.22	Duration	40 mins
Course Tutor	Ms.M.Nandhini AP/ECE		

Unit / Topic	**Unit IV / DIGITAL COMMUNICATION**
Course Outcome	**CO5:Explain the various digital modulation techniques (UN)**
Activity Chosen	**Round –Robin Brainstorming**
Activity Implementation	Students can split into groups to keep the activity moving quickly and they discuss the brain storming questions with the other students in their group by understanding the concept to find the solution.
Type of Activity	~~Individual~~/Group/~~Both~~

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO12	PSO1	PSO2	PSO3	PSO4
CO5	3	3	2	2	2	3	2	2	3	2	2	2

Images / Screen shot of the practice:

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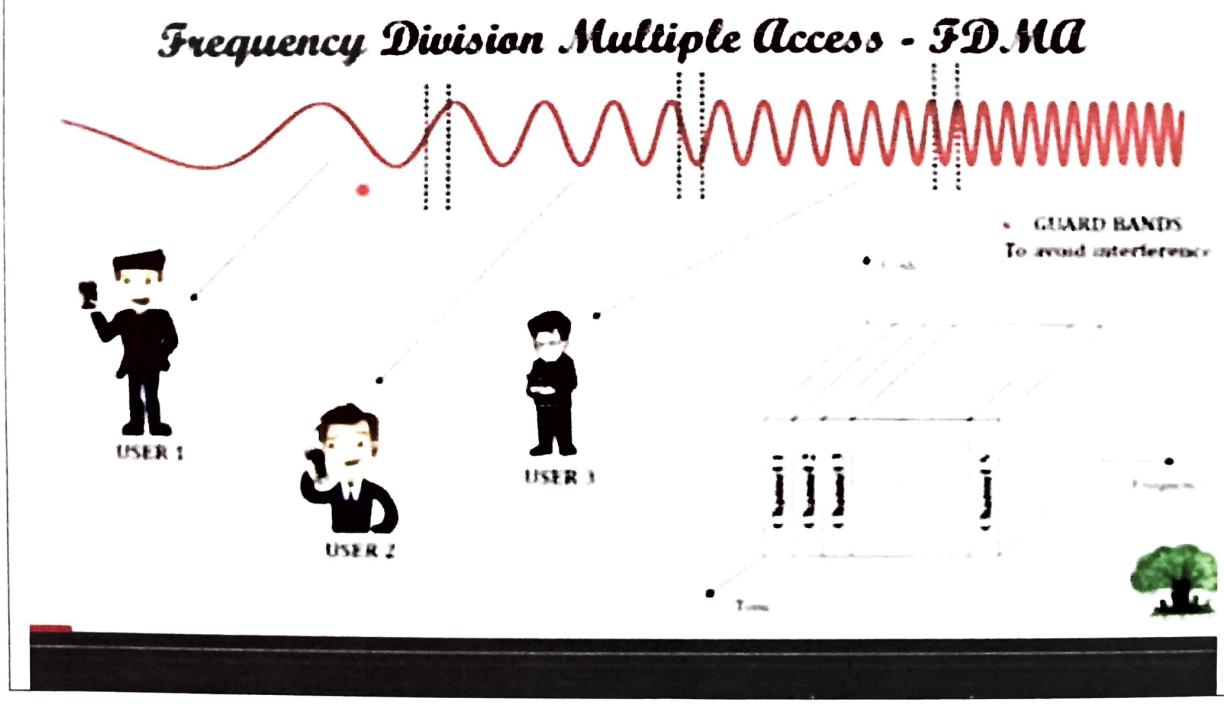
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191EC51	Course Name	Analog & Digital Communication
Date of activity:	25.10.22	Duration	40 mins
Course Tutor:	Ms.M.Nandhini AP/ECE		

Unit / Topic	**Unit V / SPRED SPECTRUM AND MULTIPLE ACCESS TECHNIQUES**
Course Outcome	**CO6:Demonstrate the spread spectrum and multiple access techniques (UN)**
Activity Chosen	**Flipped classroom**
Activity Implementation	https //youtu be/HeP_J7GTDs8 Students watched the video in home before coming to the class. In the class, the faculty facilitates students to know about the different multiple access techniques.
Type of Activity	Individual/~~Group~~/~~Both~~

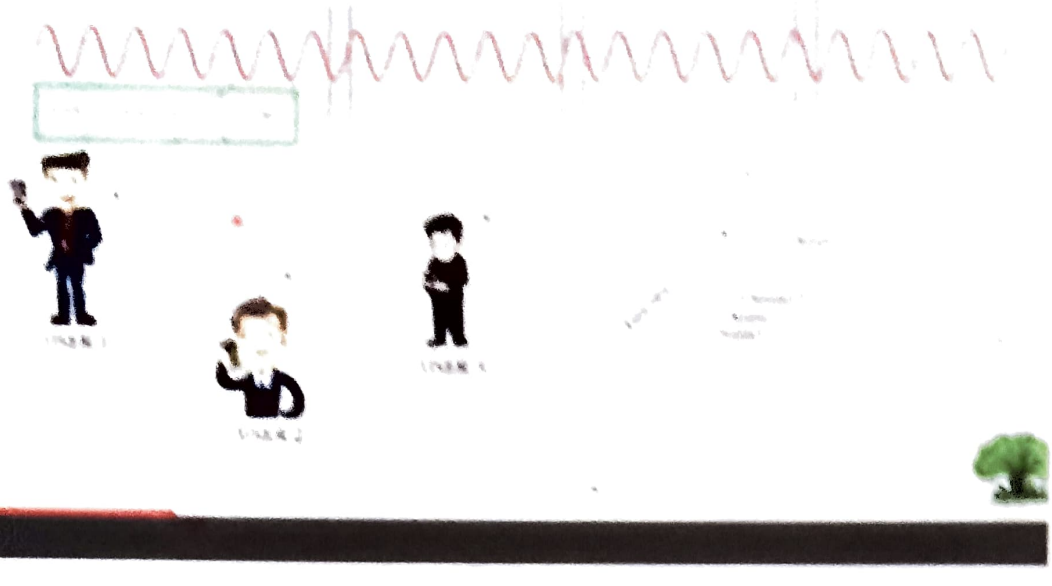
CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO12	PSO1	PSO2	PSO3	PSO4
CO6	3	2	2	2	3	2	3	3	3	2	2

Images / Screen shot of the practice:



Time Division Multiple Access - TDMA



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