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:	191EE42	Course Name	Control Systems
Date of activity:	12.08.2022	Duration	20 mins
Course Tutor:	Dr.K.Valarmathi Prof/ECE		

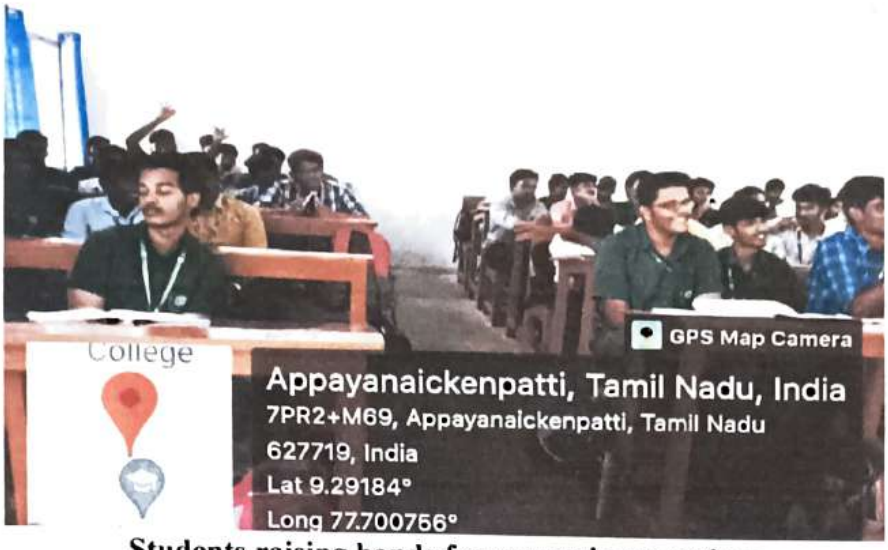
Unit / Topic	**Unit I / Basic Elements in Control systems**
Course Outcome	CO1: Develop various representations of the system. (AP)
Activity Chosen	**Quiz**
Activity Implementation	Students form different groups. Some of the students prepared PPT with set of questions and asked the remaining students to answer the questions. Also, individual student prepared the chart model for asking quiz questions.
Type of Activity	~~Individual~~ / ~~Group~~ / Both

CO – PO -PSO Mapping

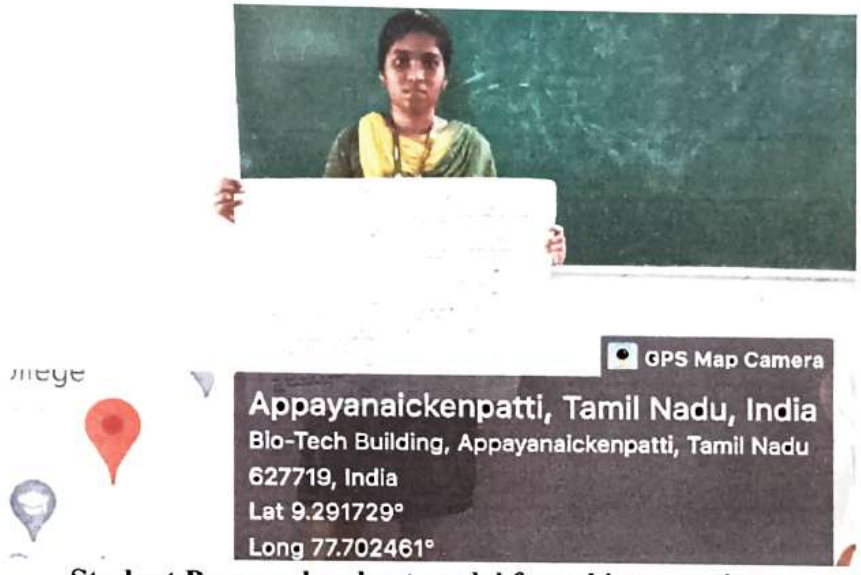
CO	PO1	PO2	PO3	PO4	PO 7	PO11	PO 12	PSO1	PSO 2	PSO3	PSO4
CO1	3	3	1	2	1	2	1	3	2	2	3

Images / Screen shot of the practice:

Conducting Quiz



Students raising hands for answering questions



Student Prepared a chart model for asking questions

Prepared Chart Model

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

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Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191EE42	Course Name	Control Systems
Date of activity:	26.08.2022	Duration	20 mins
Course Tutor:	Dr.K.Valarmathi Prof/ECE		

Unit / Topic	**Unit II / Time Domain Specifications**
Course Outcome	CO2: Explain time response analysis for I and II order systems. (UN)
Activity Chosen	**Connection Game**
Activity Implementation	Students form a group of 2 members. They prepared connections and remaining students answer the questions enthusiastically.
Type of Activity	~~Individual~~ / Group / ~~Both~~

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO11	PSO1	PSO3	PSO4
CO2	3	2	3	2	2	3	2	3

Images / Screen shot of the practice:

Conducting Connection game with different batches

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Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191EE42	Course Name	Control Systems
Date of activity:	15.09.2022	Duration	20 mins
Course Tutor:	Dr.K.Valarmathi Prof/ECE		

Unit / Topic	**Unit III / Frequency Domain Specifications**
Course Outcome	CO3: Explain various methods of frequency domain analysis. (UN)
Activity Chosen	**Quiz**
Activity Implementation	Group of students prepared quiz related to the topic of frequency domain analysis. the remaining students participated in the quiz under the guidance of faculty.
Type of Activity	~~Individual~~ / Group / ~~Both~~

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO11	PSO1	PSO3	PSO4
CO3	3	2	3	2	1	3	2	3

Images / Screen shot of the practice:

Group of students conducting Quiz

Students answering the quiz

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Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191EE42	Course Name	Control Systems
Date of activity:	17.10.2022	Duration	20 mins
Course Tutor:	Dr.K.Valarmathi Prof/ECE		

Unit / Topic	**Unit IV / Routh Hurwitz Criteria**
Course Outcome	CO4: Identify the stability of the system. (AP)
Activity Chosen	**Peer Learning**
Activity Implementation	Advanced learner of the class presented a seminar on topic of Routh-Hurwitz criteria for their friends, solved some problems and clarified their doubts.
Type of Activity	~~Individual~~ / Group / ~~Both~~

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO7	PO 11	PO 12	PSO1	PSO3	PSO4
CO4	3	2	3	2	1	1	1	3	2	3

Images / Screen shot of the practice:

Taking seminar

Solving problems using Chalk and Board

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Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191EE42	Course Name	Control Systems
Date of activity:	28.10.2022	Duration	20 mins
Course Tutor:	Dr.K.Valarmathi Prof/ECE		

Unit / Topic	**Unit IV / Different type of Compensators**
Course Outcome	CO5: Build the suitable compensator for given specifications. (AP)
Activity Chosen	**Mind Mapping**
Activity Implementation	Individual student prepared a mind map on various types of compensators to understand this topic easily.
Type of Activity	Individual / ~~Group~~ / ~~Both~~

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO11	PSO1	PSO3	PSO4
CO5	3	3	3	1	2	3	2	3

Images / Screen shot of the practice:

Drawing mind-map for various types of compensators

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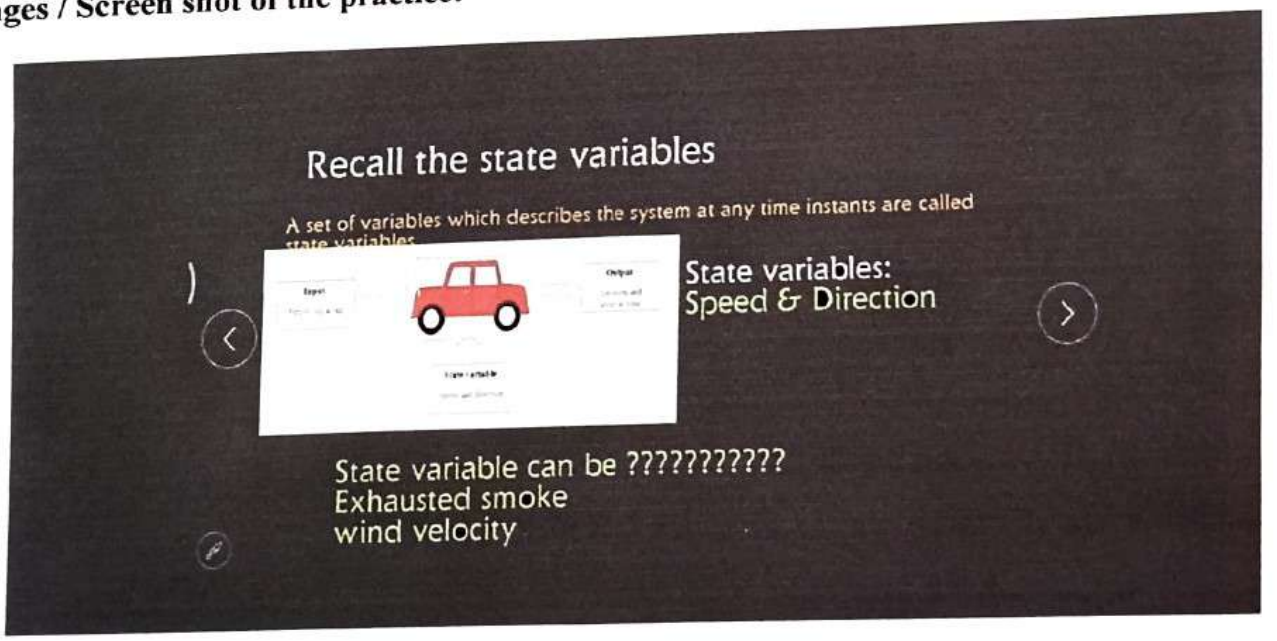
Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191EE42	Course Name	Control Systems
Date of activity:	31.10.2022	Duration	20 mins
Course Tutor:	Dr.K.Valarmathi Prof/ECE		

Unit / Topic	**Unit V / Concept of state variables**
Course Outcome	CO6: Identify the solution of complex control problem by state variable analysis. (AP)
Activity Chosen	**Video Lecture**
Activity Implementation	**URL:** https://youtu.be/hU4eCrGW29s The tutor played the video on the topic of state variables and the students watched the visualization for understanding the concept.
Type of Activity	Individual / ~~Group~~ / ~~Both~~

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO11	PSO1	PSO3	PSO4
CO6	3	2	2	1	1	3	2	3

Images / Screen shot of the practice:



Video lecture for state variables

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