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

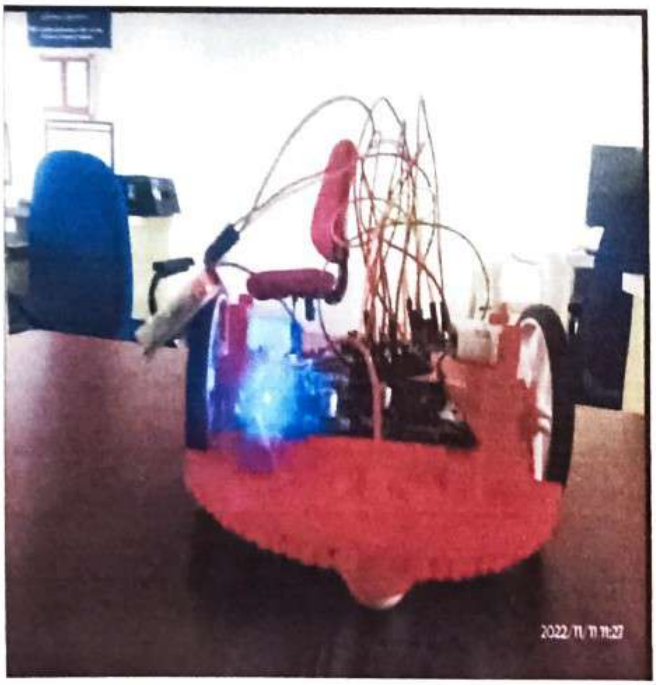
Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191ECEJ	Course Name	Mobile Robotics
Date of activity:	28.07.22	Duration	40 mins
Course Tutor:	Ms.B.Dhanam, Assistant Professor/ECE		

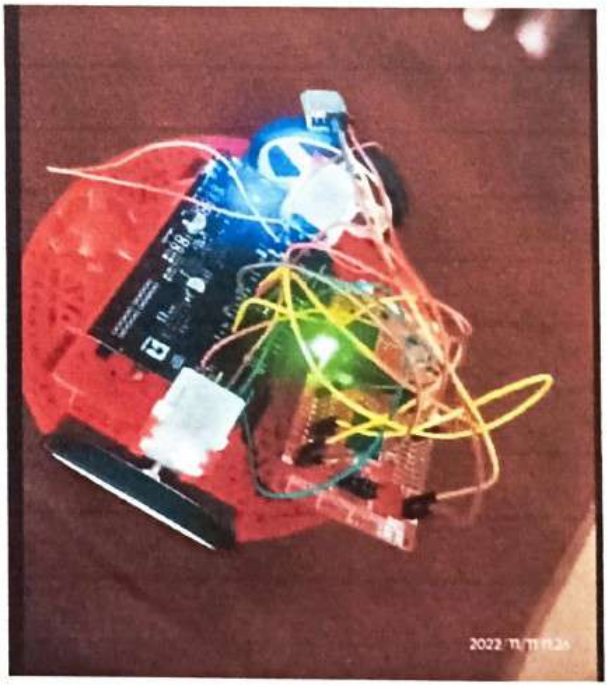
Unit / Topic	**Unit I / LOCOMOTION AND KINEMATICS/Wheel Mobile Robots**
Course Outcome	**CO1: Explain about locomotion and Kinematics. (UN)**
Activity Chosen	Lab visit
Activity Implementation	Faculty brings the student to the Robotics lab and explains the working of Wheel Robots. Students understand the concept and observes visually.
Type of Activity	Group

CO – PO -PSO Mapping

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

Images / Screen shot of the practice:





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

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

Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year	2022-2023	Year/Semester	III/V
Course Code	191ECEJ	Course Name	Mobile Robotics
Date of activity:	23.08.22	Duration	40 mins
Course Tutor:	Ms.B Dhanam, Assistant Professor/ECE		

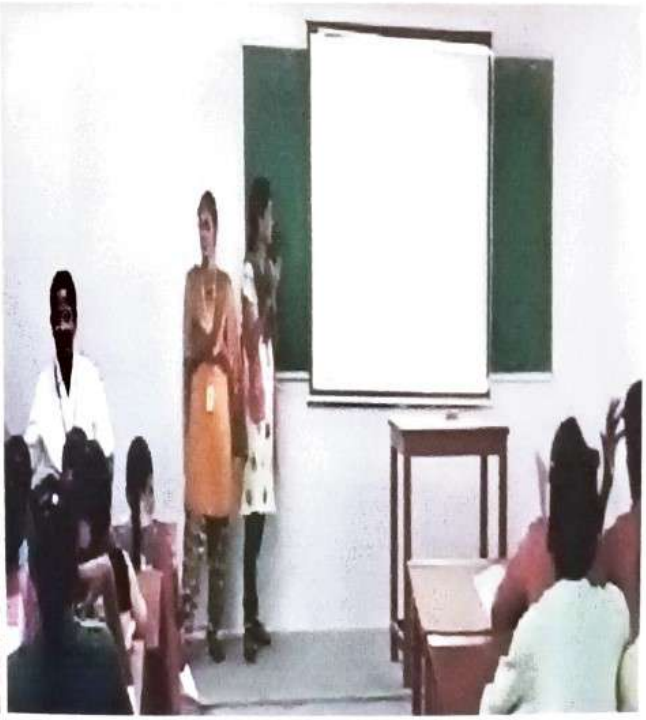
INNOVATIVE PRACTICES

Unit / Topic	**Unit II PERCEPTION,NON VISUAL SENSORS AND ALGORITHMS/Comparative study of sensors**
Course Outcome	**CO2: Interpret the sensors for different environments. (UN)**
Activity Chosen	**Game based learning**
Activity Implementation	The faculty teaches the rules and regulations of the game called CONNECTION. Two Students organize the game and the remaining students find the Solution.
Type of Activity	Individual

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO12	PSO2	PSO4
CO2	3	2	3	3	3	2	2	3

Images / Screen shot of the practice:



B. Dhanam
Course Tutor

Programme Co-ordinator

HOD/ECE

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

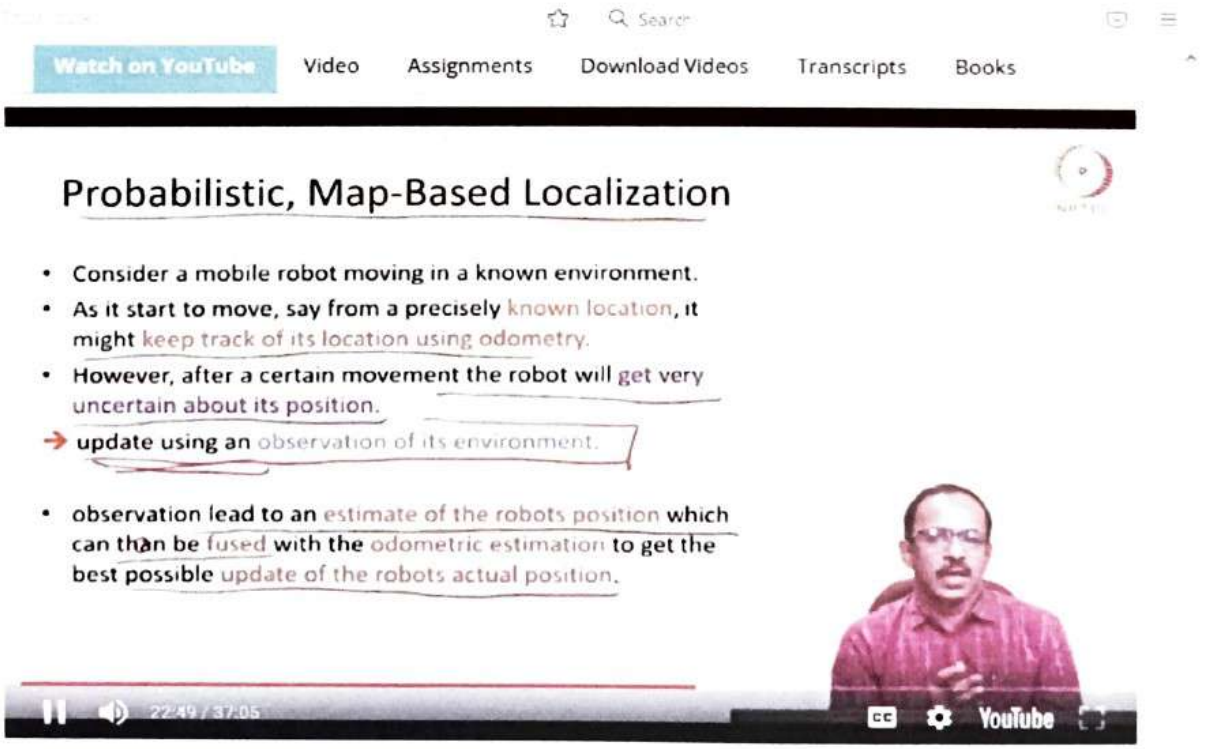
Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191ECEJ	Course Name	Mobile Robotics
Date of activity:	21.09.22	Duration	40 mins
Course Tutor:	Ms.B.Dhanam, Assistant Professor/ECE		

Unit / Topic	**Unit - III MOBILE ROBOT LOCALIZATION/ Probabilistic Map based Localization**
Course Outcome	**CO3: Illustrate Mobile Robot Localization (UN)**
Activity Chosen	**Visualization LCD**
Activity Implementation	https://archive.nptel.ac.in/courses/112/106/112106298/ Students watch the video and understand the concept
Type of Activity	Individual

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO12	PSO2	PSO4
CO3	2	2	2	2	2	1	2	3

Images / Screen shot of the Video:



B. Dhanam
Course Tutor

Programme Co-ordinator

HOD/ECE

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

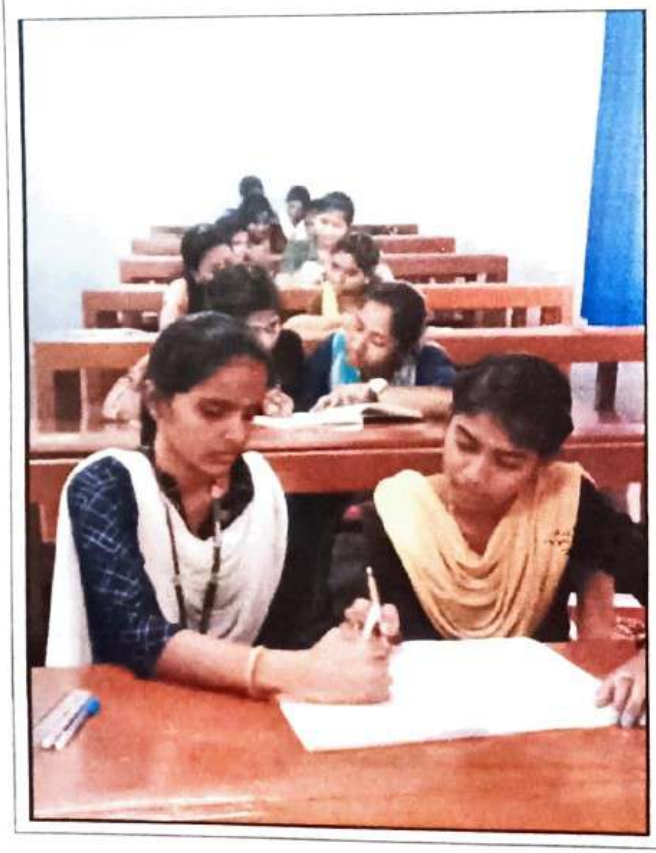
Programme:	B.E.	Branch	Electronics and Communication Engineering
Academic Year:	2022-2023	Year/Semester	III/V
Course Code:	191ECEJ	Course Name	Mobile Robotics
Date of activity:	17.10.22	Duration	40 mins
Course Tutor:	Ms.B.Dhanam, Assistant Professor/ECE		

Unit / Topic	**Unit IV / PLANNING AND NAVIGATION ANDSYSTEM CONTROL /Bug Algorithm**
Course Outcome	**CO4: Explain planning and system control techniques.(UN)**
Activity Chosen	**Think Pair Share**
Activity Implementation	The faculty teaches the concept and gives an example. Students pair among themselves, discuss and solve problems based on the algorithm
Type of Activity	~~Individual~~/~~Group~~/Both

CO – PO -PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO12	PSO2	PSO4
CO4	2	3	2	3	3	3	2	3

Images / Screen shot of the practice:



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

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:	191ECEJ	Course Name	Mobile Robotics
Date of activity:	02.11.22	Duration	40 mins
Course Tutor:	Ms.B.Dhanam, Assistant Professor/ECE		

Unit / Topic	**Unit V ROBOT APPLICATIONS/Artificial Intelligence in Robotics**
Course Outcome	**CO6: Apply robots for real life applications. (AP)**
Activity Chosen	Guest lectures by industry persons
Activity Implementation	**Seminar on Intelligence in Robotics** The resource person for the workshop was E.M.Praveen Mathias, Managing Director, MATT Automations. The resource person in his session covered the topics of different types of Robots based on Artificial intelligence, their applications in various fields and tools available for developing intelligent Robots. A Memorandum of Understanding (MOU) was signed between MATT Automations and P.S.R.Engineering College for enhancement of the Robotics laboratory and Skill development of students.
Type of Activity	Individual

CO – PO -PSO Mapping

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

Images / Screen shot of the Guest Lecture:

B. Dhanam
Course Tutor

Programme Co-ordinator

HOD/ECE