

**ASSOCIATION OF ELECTRICAL AND ELECTRONICS ENGINEERS
&
INSTITUTION OF ENGINEERS (INDIA)**

PRESENTS

**SENSOR GUIDED
ROBOTICS**
HANDS-ON TRAINING

CONVENOR

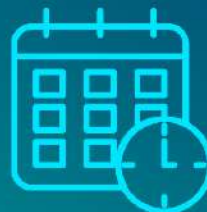
Dr.KR.Santha, Vice Principal, HOD/EEE

FACULTY CO-ORDINATORS

Dr.Sudhakar K Bharatan, Professor
Dr.S G.Bharathidasan, Asso. Professor
Dr.S.Kumaravel, Asso. Professor
Dr.M.Sankar, Asst. Professor
Department of EEE

STUDENT CO-ORDINATORS

Mr.Adithyan M, General Secretary AEEE
Mr.Hemanth T, Joint Secretary AEEE



**18,19,21
MARCH 2022**



SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

21/3/2022

REPORT ON 3-DAYS "SENSOR GUIDED ROBOTICS - HANDS-ON TRAINING"

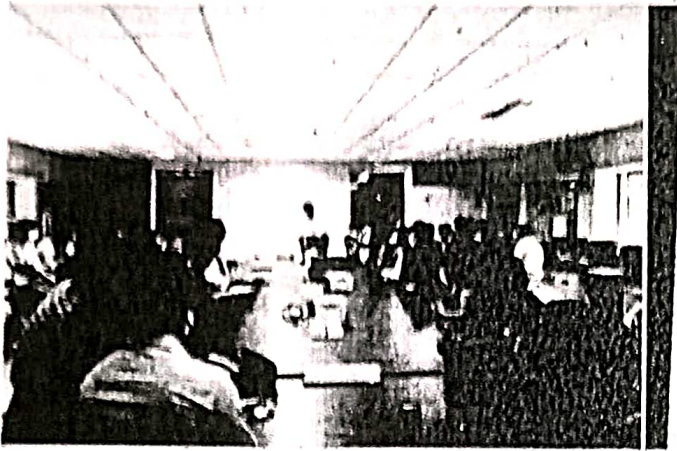
The 3-days "Sensor Guided Robotics – Hands-on Training" program was organized by the Association of Electrical and Electronics Engineers (AEEE), Department of Electrical and Electronics Engineering in association with The Institution of Engineers India (IEI) from 19/3/2022 to 21/3/2022 for the II year EEE students.

The inauguration of the training program was held on 19/3/2022 in the Function Hall of the college premises from 9.30 AM to 10.00 AM. Dr.KR.Santha, Vice-Principal, Professor and HOD/EEE lighted the Kuthuvilakku and presented the inaugural address with more emphasis on robotic sensors, signal conditioning circuits, controllers, actuators and applications of robotics in medical field. Dr.Sudhakar K B, Professor/EEE motivated the students to apply the learnt concepts in robotics training program for real-time problem solutions.

In the first day training, introduction to Arduino, raspberry pi, NodeMCU, classification of sensors, Gyro sensor, Micro gear motor, Motor driver circuit, Hands-on interfacing sensors with Arduino and related coding session was completed. The students experientially learnt to develop sensor interfacing with controllers.

In the second day training, introduction to Infrared sensor & DC motor drives, Line Following Robot – briefing & Hands-on session was completed. The students were trained to develop 'line following robots'.





In the third day of the training program, Mr.B.Saravanan, Founder Director, BrixEn Hitech Pvt Ltd, Chennai, presented a guest lecture on the topic "Industrial applications of Robots and Autonomous Mobile Robots (AMRs)". Followed by the guest lecture, Mr.V.Mohanraj AP/EEE presented a introductory session on Firebird-V Robot. In the AN session, students were trained to develop Obstacle Avoiding Robot.



The 3-days training session ended with motivating the students to take a problem statement in the Robotics and Drones domain and submit the solution in terms of real-time implementation before the jury for evaluation.

KR. Saravanan

HOD/EEE