



2-days "Sensor Guided Robotics - Hands-on Training" program - Inauguration invitation - reg

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Dear Sir/Madam,

On behalf of the Association of Electrical and Electronics Engineers (AEEE), Department of Electrical and Electronics Engineering, Institution of Engineers (India) and IEEE Student Branch SVCE, we are pleased to invite you all for the inauguration of 2-days "Sensor Guided Robotics - Hands-on Training" program on 15/02/2024 (Thursday), 9.30 AM at Video Hall.

A copy of the brochure and agenda is attached herewith. All are cordially invited.

Thanks & Regards,

Dr.KR.Santha,
Vice Principal & HOD/EE
SVCE

2 attachments



Robotics training program-agenda.pdf

176K



Robotics - brochure.pdf

6726K

**ASSOCIATION OF ELECTRICAL AND
ELECTRONICS ENGINEERS**

INSTITUTION OF ENGINEERS (INDIA)

&

IEEE STUDENT BRANCH SVCE

ORGANIZES

SENSOR GUIDED ROBOTICS HANDS-ON TRAINING



**15 & 16
FEBRUARY 2024**

INAUGURATION

DATE: 15TH FEB 2024

TIME: 9:30 AM ONWARDS

VENUE: VIDEO HALL

HANDS-ON TRAINING @ MPMC, PE LAB

EXPERT TALK



**Dr. Ramya S Moorthy
Founder - Nimaya Robotics**

**Topic: To Infinity and beyond -
Social Robotics for Disabilities**

CONVENOR

**Dr.KR.Santha, Vice-Principal,
Professor & Head of Dept,
Department of EEE**

FACULTY CO-ORDINATORS

**Dr. Sudhakar K Bharatan, Professor
Dr.S.G.Bharathidasan, Professor
Dr.S.Kumaravel, Associate Professor
Dr.M.Sankar, Asst. Professor
Mr.S.Sudharsanam, Asst. Professor
Dr.R.J.Venkatesh, Asst. Professor
Department of EEE**

STUDENT CO-ORDINATORS

**Ms.N.Harini, President
Mr.S.Sabari, Vice President**

SRI VENKATESWARA COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

19/2/2024

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

The 2-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) and IEEE Student Branch SVCE from 15/2/2024 to 16/2/2024 for the II year EEE students.



Inaugural address by Dr.KR.Santha, Vice-Principal, Professor and HOD/EEE

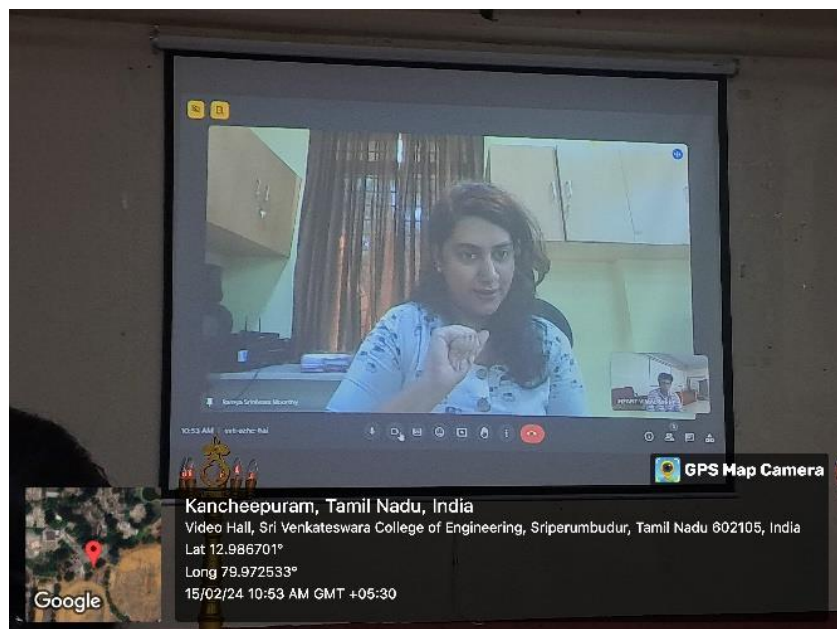
The inauguration of the training program was held on 15/2/2024 in the Video Hall of the college premises from 9.30 AM to 10.00 AM. Dr.KR.Santha, Vice-Principal, Professor and HOD/EEE lighted the Kuthuvilakku and presented the inaugural address with more emphasis on two days session details, robotic sensors, signal conditioning circuits, controllers, actuators and applications of robotics in medical field. Dr.Sudhakar K B, Assistant HOD and Professor/EEE was also present and graced the occasion.



Online guest lecture in the video hall

Following the inauguration, Dr. Ramya S Moorthy, Founder, Nimaya Robotics presented a guest lecture on the topic “To infinity and Beyond – Social Robotics for Disability” through online mode from Manipal Institute of

Technology, Manipal. The presentation dwelled around the application of robotics in facilitating the children with psychomotor disabilities to accelerate their learning rate. The presentation featured videos of real-time application of robotics in helping children overcome their disabilities and their parent's/trainers feedback. The presentation motivated the student to sincerely learn the concepts of robotics and its application for societal need and concern.



Question answer session followed by the guest lecture



The robotic sensors concepts briefing and hands-on sessions

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’ and ‘obstacle avoiding robots’



Building the ‘line following robots’



Building the ‘obstacle avoiding robots’

The 2-days training session ended with motivating the students to take a problem statement in the Robotics and Drones domain and propose the solution in terms of real-time implementation which will facilitate them to participate in state/national level competitions.

K.R. Parth

HOD/EEE