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IEEE
STUDENT BRANCH

VNRVJIET STUDENT

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Academic Year: 2023-24

IEEE VNRVJIET SB conducted a Hands-on Robotics Workshop in association with IEEE RAS Hyderabad Section during 27th & 28th February 2023

Overview: IEEE VNRVJIET SBC Hands-on workshop on “SMART AGRICULTURE ROBOT”



WORKSHOP ON
SMART AGRICULTURE ROBOT

13/02/2023 & 14/02/2023
@ VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad

Financially Sponsored by

IEEE ROBOTICS & AUTOMATION SOCIETY
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IEEE ROBOTICS & AUTOMATION SOCIETY HYDERABAD SEC CHAPTER

Jointly Organized by

IEEE STUDENT BRANCH OF
VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Contents

Day 1

- Introduction to Robotics, Agriculture robots, TRL levels
- Introduction Esp32 & Serial communication
- Assembly of Smart Agriculture Robot
- Interfacing of LED&LDR
- Tea break
- Interface of DC motor
- Interface of Ultrasonic Sensor
- Interface of Soil Moisture Sensor
- Interface of Servo Motor
- Lunch break
- Bluetooth interface to control Robot
- Developing Android app using MIT app Development to control Robot

Day 2

- Developing Webpage to control Robot
- Lunch break
- IoT with Things speak
- Uploading data in cloud
- Sending and Receiving Messages

Registration & Contact
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- 1.The workshop was conducted on 27th & 28th February 2023.
- 2.The students were divided into teams of five with each student from different branches.
- 3.The workshop was completely hands-on the teams where given their respective kits.
- 4.They were a total of 76 students who participated in this particular workshop.
- 5.They made a prototype which had all the basic specifications and parameters required by a farmer.
6. Every team in the workshop successfully completed their prototype with accurate results and were very convinced with the lectures.
- 7.The event was successfully conducted and the students gained knowledge on embedded and IOT domain. They demonstrated and developed a Hardware Prototype.

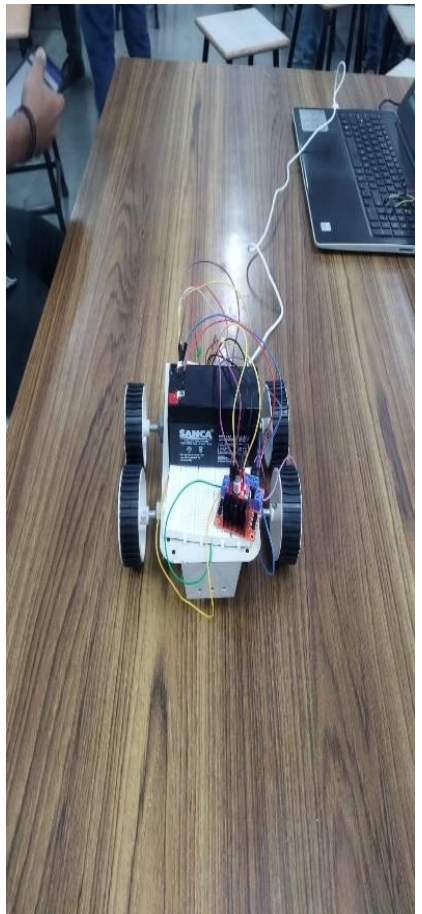
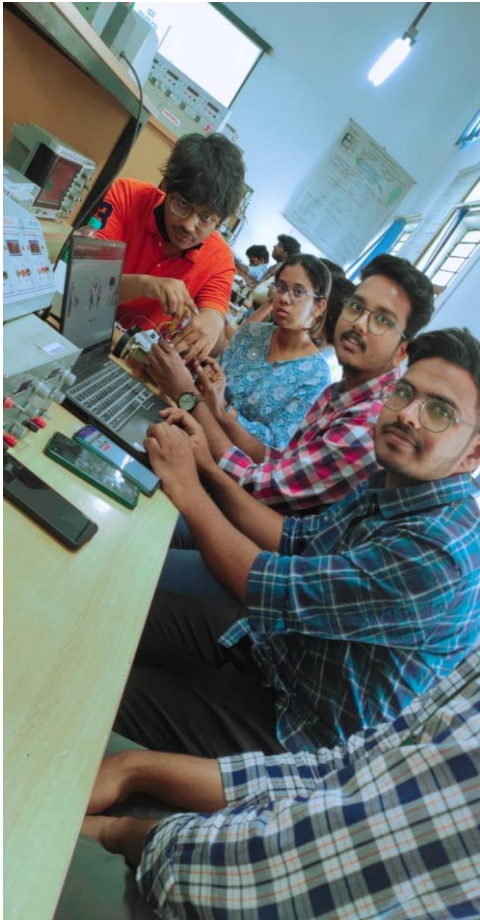
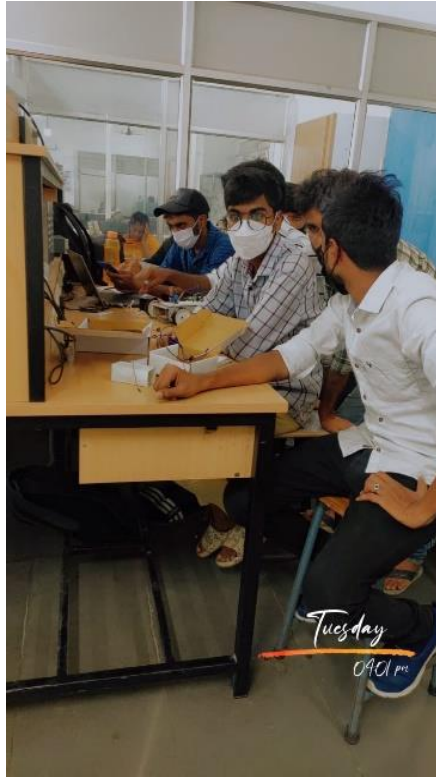
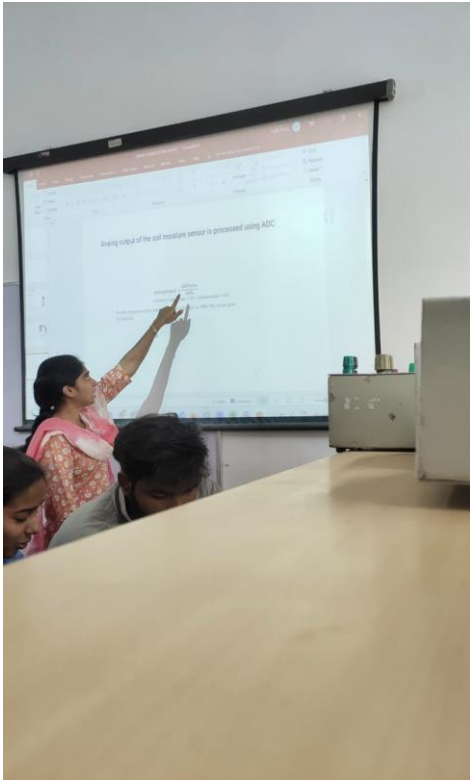
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