

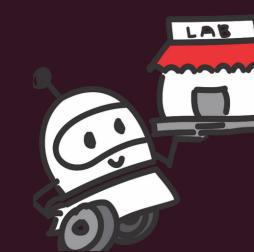
ACHIEVEMENTS

- Four teams from our lab showcased their prowess by participating in a national-level project hackathon hosted by IIT Bombay, solidifying our position among the TOP 25 colleges in the country.
- A cohort of 10 students and 4 faculty members successfully completed a rigorous 50-day Online Crash Course on Embedded Systems and Robotics, meticulously designed and offered by e-Yantra.
- Additionally, the same group underwent an enriching online MOOC course on the Basics of Embedded Systems and Robotics, provided free of cost by e-Yantra.



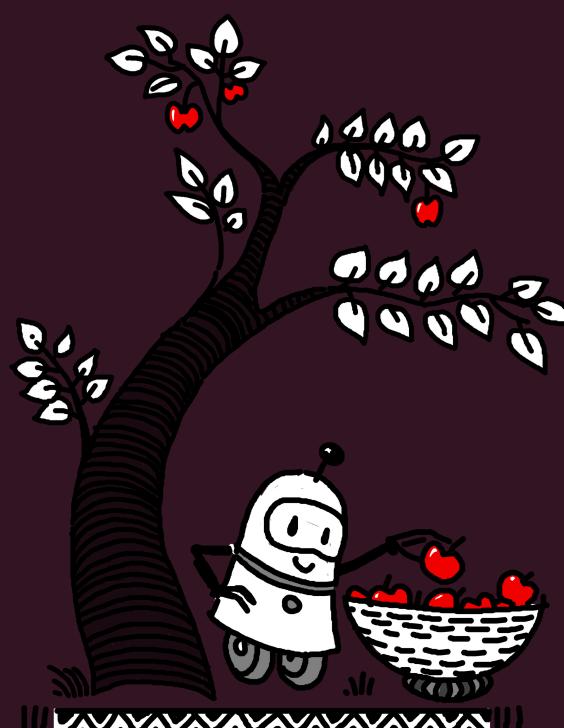
WHAT WE OFFER

- Explore the future with CSV0657J "Smart Devices DIY: Creating Smart Solutions." This add-on course empowers you to delve into the realm of smart devices, equipping you with the skills to craft innovative solutions for the modern world.
- Dive into the cutting-edge realm of the metaverse with 21CSE294P "Introduction to Metaverse," an industrial support elective. Discover the concept of the Industrial Metaverse as we bridge the gap between IoT devices and the virtual world, opening doors to limitless possibilities.



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E-YANTRA LAB

UNVEILING THE EYANTRA LAB

Ranked among the TOP 25 colleges and also among the TOP GRADE A colleges nationally, our eYantra Lab stands as a pioneering space, dedicated to nurturing innovation and creativity within the realms of Internet of Things (IoT) and embedded systems. Officially inaugurated in November 2023, the virtual ceremony was graced by the esteemed presence of Prof. Kavi Arya, Principal Investigator of e-Yantra and Professor in the CSE Department at IIT Bombay. This state-of-the-art facility is meticulously equipped with advanced IoT kits and is staffed by expert mentors. Our lab serves as a dynamic hub, empowering students and researchers to delve into their ideas, craft innovative solutions, and make significant contributions to various research domains.

VISION

A unique space dedicated for fostering creativity and innovation in the realm of Embedded systems, Internet of Things (IoT), Robotics and Digital twin.

MISSION

- To foster awareness about Internet of Things among students and equip them with the essential skill sets needed for a competitive industry in this field
- To assist and mentor students in diverse areas concerning robotics and embedded systems especially for CSE
- To build real-world problem-solving abilities for creating a sustainable ecosystem with students and faculty

OBJECTIVES

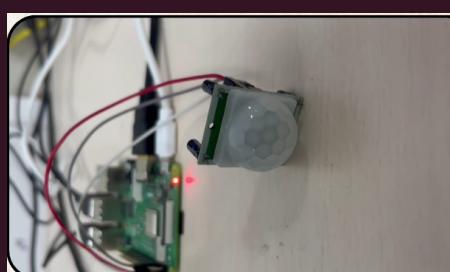
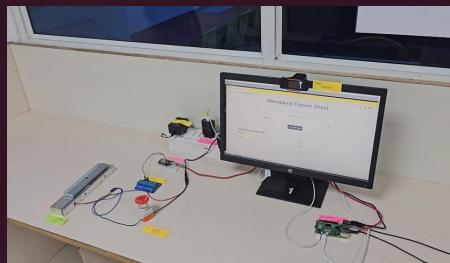
- To foster awareness about robotics among students and equip them with the essential skill sets needed for a competitive industry in this field.
- To assist and mentor students in diverse areas concerning robotics and embedded systems, focusing particularly on computer science and engineering.
- To impart practical understanding of ATmega 2560 microcontrollers to students



PROJECTS

Completed Projects

| | |
|---|-------------------------------------|
| 1. Light Automation System with Voice Assistant | Dr V.Angayarkanni |
| 2. Automated Attendance and Access Control System | Dr. J.Kalaivani |
| 3. Security System with Raspberry pi cameras and motion sensors | Dr. C. Ashok Kumar |
| 4. Microprocessor Component Detector | Dr. Kirubanantham |
| 5. 4 wheel Line Follower using Arduino | Dr J.Kalaivani Dr.V.Angayarkanni |



Ongoing Projects

| | |
|--|---------------------|
| 1. Real time synergy of traffic data using digital twin | Dr. R.I.Minu |
| 2. Smart Parking System | Dr. V. Angayarkanni |
| 3. Developing a smart mirror with an integrated face recognition system. | Dr.M. Suganiya |
| 4. RFID Door Access Control | Dr.P.Kirubanantham |
| 5. Robotics Arm using Arduino Uno | Dr J.Kalaivani |

EQUIPMENTS

- FIRE BIRD V ATMEGA2560
- ESP8266 Development Board
- ESP32 Development Board
- LPC2148 Development Board
- ATmega2560 Development Board
- P89V51RD2 Development Board
- Raspberry-Pi 3 model B+
- Altera Cyclone IV FPGA DEO-Nano
- STM32 Nucleo boards
- Tiva Launchpad



FACULTY



STUDENTS



GALLERY

