



Dr. VPSSM's

**Padmabhooshan Vasantraodada Patil Institute of Technology,
Budhgaon (Sangli)**

Approved by AICTE New Delhi & Recognized by Gov. of Maharashtra, Affiliated to
D. BATU, Lonere.

**Institution Innovation Council
2023-2024**



REPORT

Title:

Seven day's workshop on "IoT and Industry 4.0" (27th to 29th March and 9th April to 12th April 2025)

Objective:

To enable students to know the critical aspects of IoT technology using Arduino and Raspberry-pi, sensor interfacing, ESP 32.

Benefit:

1. 66 students of TY ECS attended the seven day's workshop.
2. Students learned about the industry 4.0 and related experimentation.
3. Students got hands on training on various sensors interfacing with ESP32 and data sharing on cloud.
4. Students got hands on training on various sensors interfacing with Raspberrypi

Overall Report:

An offline seven-day course on "Internet of Things and Industry 4.0" was arranged from March 27th to March 29th and April 9th to April 12th 2025. Dr. K. K. Pandiyaji, Head of Electronics and Computer Science Engineering, and Dr. A. B. Shinde (IIC committee member) supervised the workshop for third-year Electronics and Computer Science engineering students. This session aims to provide students with hands-on training using contemporary technology.

Mr. Parshwa Patil, Ashutosh Mahindrakar, and Prathamesh Anande, expert industry professionals from TRIMAP Tech Solutions, were invited to serve as resource persons for the aforementioned workshop. Students have the opportunity to actively engage with industry experts.



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Schedule	
Day 1 27 th March 2025	Industry 4.0, Arduino basics, microcontrollers, and project demo
Day 2 28 th March 2025	Digital I/O, transducers, M2M communication, LDR sensors
Day 3 29 th March 2025	Libraries, object-oriented programming, DHT11, PWM, linear actuators
Day 4 9 th April 2025	IoT introduction, ESP32, Ultrasonic sensors, buzzer integration
Day 5 10 th April 2025	Cloud platforms (ThinkSpeak, Blynk, Arduino Cloud), IEEE, Adafruit, relays
Day 6 11 th April 2025	Android app development (Kodular, Blynk, IR remote)
Day 7 12 th April 2025	Raspberry Pi 5, project demo, research paper guidance, and career mentorship



Picture: Workshop day 1: 27th March 2025



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Picture: Workshop day 2: 28th March 2025



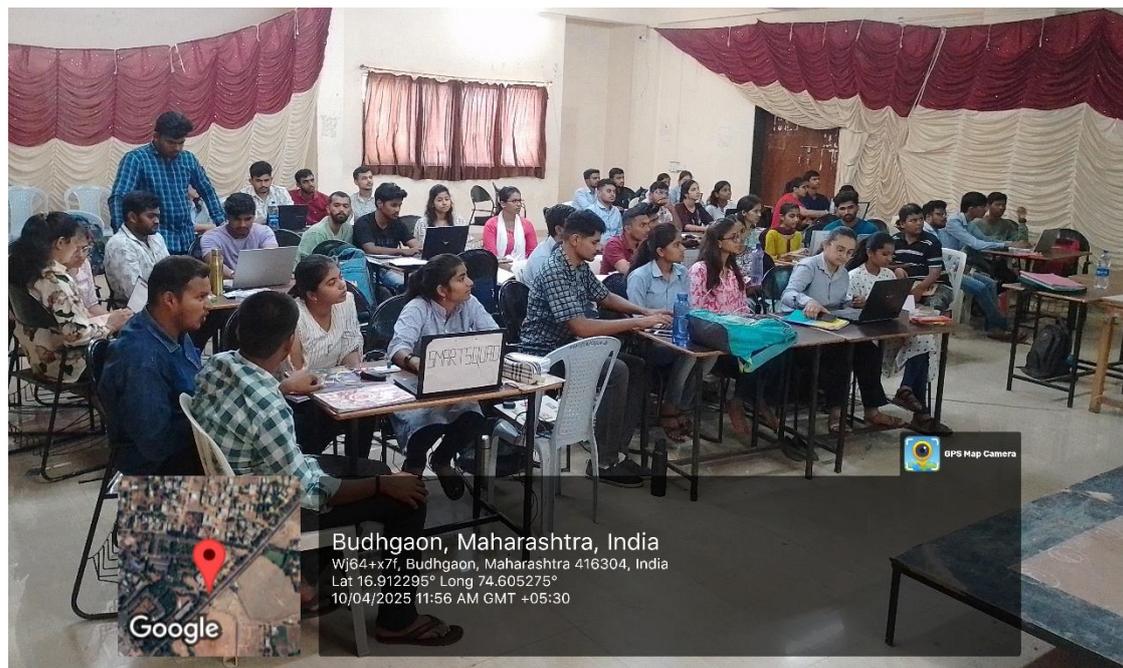
Picture: Workshop day 3: 29th March 2025



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Picture: Workshop day 4: 09th April 2025



Picture: Workshop day 5: 10th April 2025



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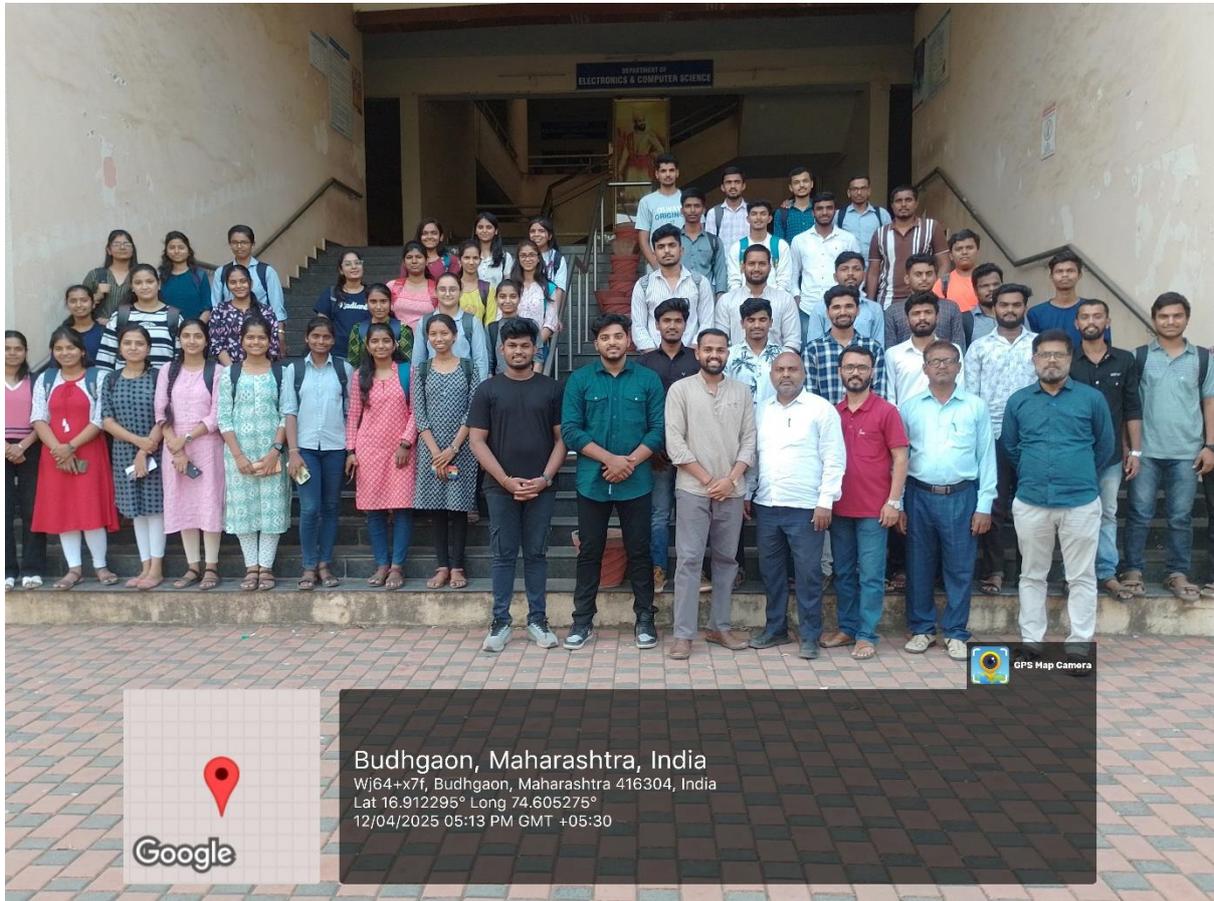
Picture: Workshop day 6: 11th April 2025



Picture: Workshop day 7: 12th April 2025



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Picture: Group Photo: 12th April 2025