REPORT

Title:

Two days' workshop on "IoT Using Node MCU & Paspberry Pi" (15th and 16th May 2024)

Objective:

After completionof this workshop students will be able to:

1. Operate raspberry Pi microcontroller
2. Interface the peripherals to Node MCU and validate the output

Benefit:

1. 68 Students attended the workshop.
2. Student are able to design and the build the projects based on IoT concepts.
3. Students learnt the interfacing of peripherals with node MCU and raspberry pi μC.
4. Students are able to call the data read from sensors to ThingSpeak Platform.

Overall Report:

Dr. Kishor K. Pandyaji and Dr. A. B. Shinde (IIC committee member) successfully coordinated two days workshop on "IoT Using Node MCU & Paspberry Pi" between 15th and 16th May 2024 for third year Electronics and Computer engineering students. This workshop was oragnized to equip students with more hands on training on IoT tools to excel them in this field.

The proficient industry professionals Mr. Yash Chavan and Mr. Nilesh Bavdhankar from Logibit Technologies, Sangli were invited as resource person for the said workshop. Students got the opportunity to interact with the industry professionals and build the projects based on IoT platform.

Following points are discussed and demonstrated during the session.
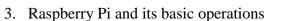
15th May 2024

1. Intro to Embedded Systems and Node MCU
2. Serial communication
3. Interfacing of flame sensor, ultrasonic sensor, DHT 11 sensor and 5 V relay module

16th May 2024

1. ThingSpeak Platform, Sending Data from Node MCU to ThingSpeak
2. Adafruit Platform, Operate LED remotely over the Internet using Adafruit IO

3. Raspberry Pi and its basic operations

4. Sensors interfacing with Raspberry Pi.

Picture: Mr. Nilesh Bavdhankar while delivering the session.

Picture: Inauguration of workshop