Skill Oriented Course Report

Date: 29-03-2023

Name of the Department: ECE

Name of the course/Workshop: ESP-32 IoT Module

Duration with Dates: Six days (13-03-2023 to 18-03-2023)

Resource Persons:

1. M.Vamsi Krishna, Skilltronics Technologies Pvt. Ltd., tadepalligudem
2. Ch.Radha, Skilltronics Technologies Pvt. Ltd., tadepalligudem
3. V.Charan, Skilltronics Technologies Pvt. Ltd., tadepalligudem
4. G.Sindhu, Skilltronics Technologies Pvt. Ltd., tadepalligudem
5. N.Ramya, Skilltronics Technologies Pvt. Ltd., tadepalligudem

Course content:

- Introduction to Embedded Systems and IoT
- IoT architecture and Functional layers
- IoT Use cases (Smart cities, Smart Irrigation, Smart Homes, Industrial applications etc.,)
- IoT Protocols
- Communication Technologies in IoT
- Development boards for IoT applications
- Sensors-Principle and Operation
- Actuators- Principle and Operation
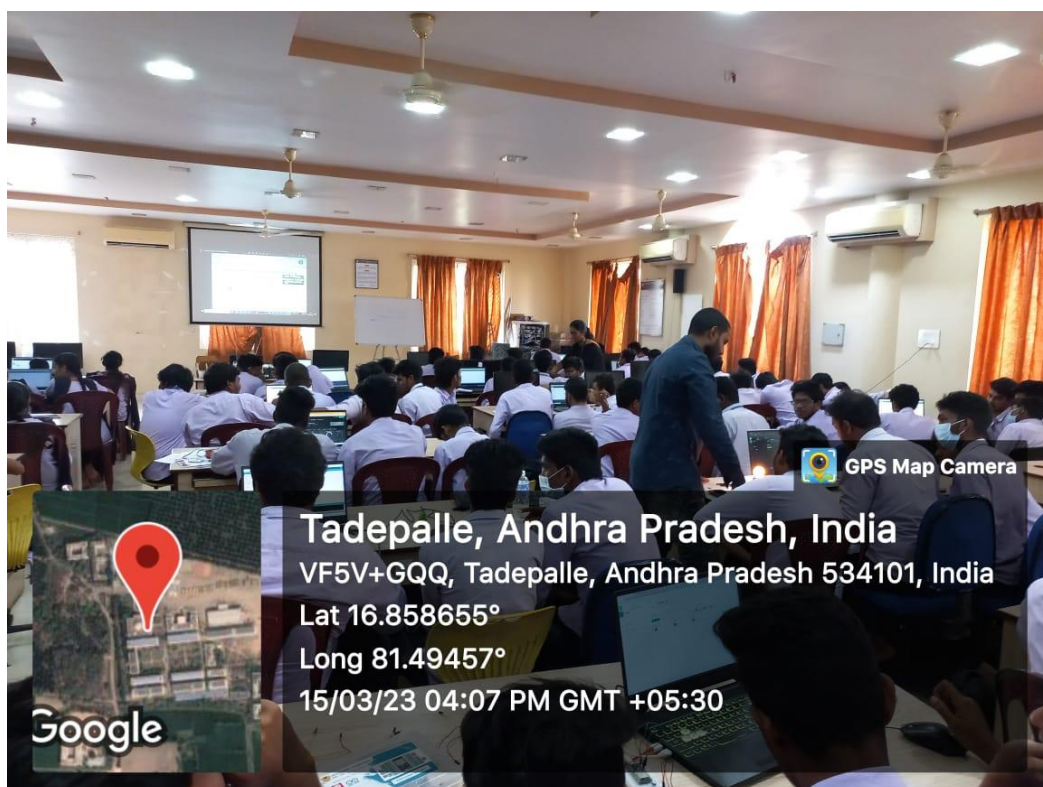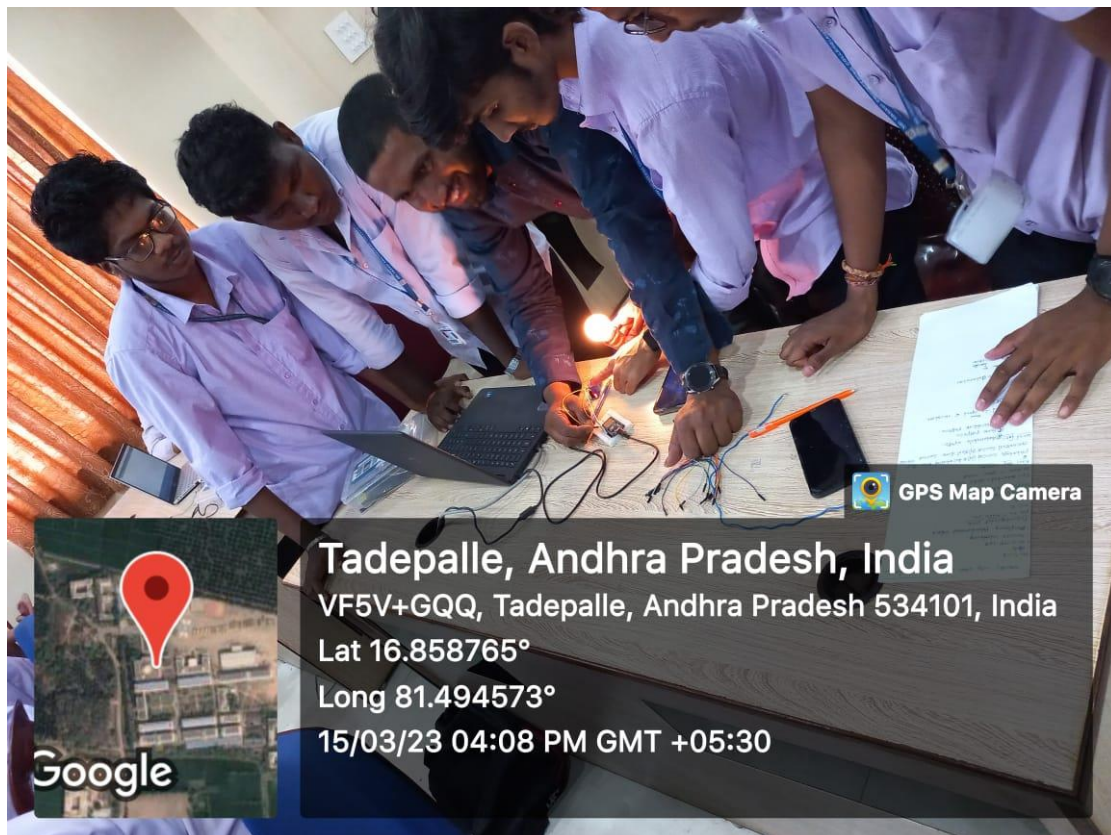- Cloud Computing Platforms and Technologies

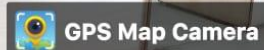**No. of students participated**: 144 (III ECE-A:72, III ECE-B:72)

Description about the course and report:

This course aims at imparting job-oriented training on IoT architectures and interfacing various sensors with ESP-32 module. By providing Hands-on workshop to students, they will get idea on hardware components. By using this knowledge they can develop simple real time projects using ESP-32. In this course, Arduino IDE is used and various sensors like temperature sensor, Ultrasonic sensor, rain drop sensor, air quality sensor are interfaced. In the last day, a contest was conducted and the winning teams awarded with ESP-32 module by Skilltronics Technologies.

Photos during SOC program:

Tadepalle, Andhra Pradesh, India
VF5V+GQQ, Tadepalle, Andhra Pradesh 534101, India
Lat 16.858778°
Long 81.494583°
15/03/23 04:10 PM GMT +05:30

Tadepalle, Andhra Pradesh, India
VF5V+GQQ, Tadepalle, Andhra Pradesh 534101, India
Lat 16.858765°
Long 81.494573°
15/03/23 04:08 PM GMT +05:30
GPS Map Camera
Google

Tadepalle, Andhra Pradesh, India
VF5V+GQQ, Tadepalle, Andhra Pradesh 534101, India
Lat 16.858655°
Long 81.49457°
15/03/23 04:07 PM GMT +05:30
GPS Map Camera
Google

Tadepalle, Andhra Pradesh, India
VF5V+GQQ, Tadepalle, Andhra Pradesh 534101, India
Lat 16.858747°
Long 81.494553°
17/03/23 03:18 PM GMT +05:30

GPS Map Camera

Tadepalle, Andhra Pradesh, India
VF5V+GQQ, Tadepalle, Andhra Pradesh 534101, India
Lat 16.858717°
Long 81.494528°
18/03/23 04:40 PM GMT +05:30

Tadepalle, Andhra Pradesh, India
VF5V+GQQ, Tadepalle, Andhra Pradesh 534101, India
Lat 16.858747°
Long 81.494553°
18/03/23 04:34 PM GMT +05:30