

ST. FRANCIS COLLEGE FOR WOMEN

HYDERABAD

ACADEMIC YEAR-2024-25

WORKSHOP ON ADVANCE BUILDING SMART IOT SOLUTIONS

Department of **Computer science** had organized two day workshop on **Advance building smart IOT solutions** on 25th and 26th July, 2024. The resource person for same was/were **Satish Rao, IOT coach, IOT users club**. The event was organized for **BSC final year (B,D,E,H)** selected students in **CS lab 7**, Computer science department, St. Francis college for women.

The advanced IOT workshop provided a comprehensive overview of technologies and platforms in the field of the Internet of Things (IoT). Workshop focused on practical and theoretical knowledge about the Internet of Things (IOT) using Arduino, NodeMCU, and IOT platforms . The workshop aimed to provide hands-on experience in building and managing IOT devices , sensors and understanding them better.

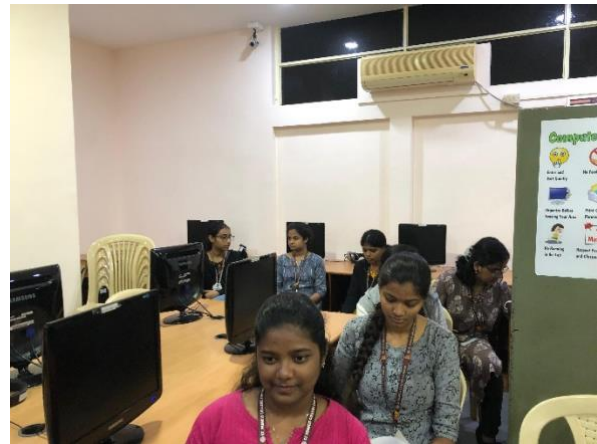
We had theoretical session on introduction of IOT and it's application. We installed libraries, modified code and set board in Arduino which is ESP 8699 wifi module. We created a ted channel in ThingSpeak iot platform and transferred data. We worked with MQTT Client app and modified the data. This workshop successfully demonstrated the integration of hardware and software to create a simple IoT application. We were able to connect the NodeMCU to a Wi-Fi Network, send data to ThingSpeak at regular intervals, work with Arduino and sensors , and also create application on kodular platform.

This session was truly inspiring and emphasized the importance of IoT Platforms. Participants gained hands-on experience in building and managing IoT Devices, which will be beneficial for future projects and endeavors in the IoT domain. Thanks to the resource person, computer science faculty and lab assistants without whom none of this would have been possible.

WORKSHOP ON BUILDING IOT SOLUTIONS BY DEPARTMENT OF COMPUTER SCIENCE .



Caption: Entire team of workshop



Caption : live sessions

