



Hope Foundation's

International Institute of Information Technology (I²IT)

Hinjawadi, Pune- 411057

**Department of Electronics & Telecommunication
Activity Report**

“Value Added Course on IoT Master Class”

Academic Year: 2021-22

Semester: I

Name of Event: Value Added Course

Date of Conduction: 20/09/2021 to 19/10/2021

Time: 5:00pm to 05:45pm

Targeted Audience: SE E&TC, TE E&TC, BE E&TC Students

Number of Participants: 61

Venue: Youtube Live

Topic: “IoT Master Class”

Resource Person: Pantech

Coordinator: Prof. Ashvini Kulkarni

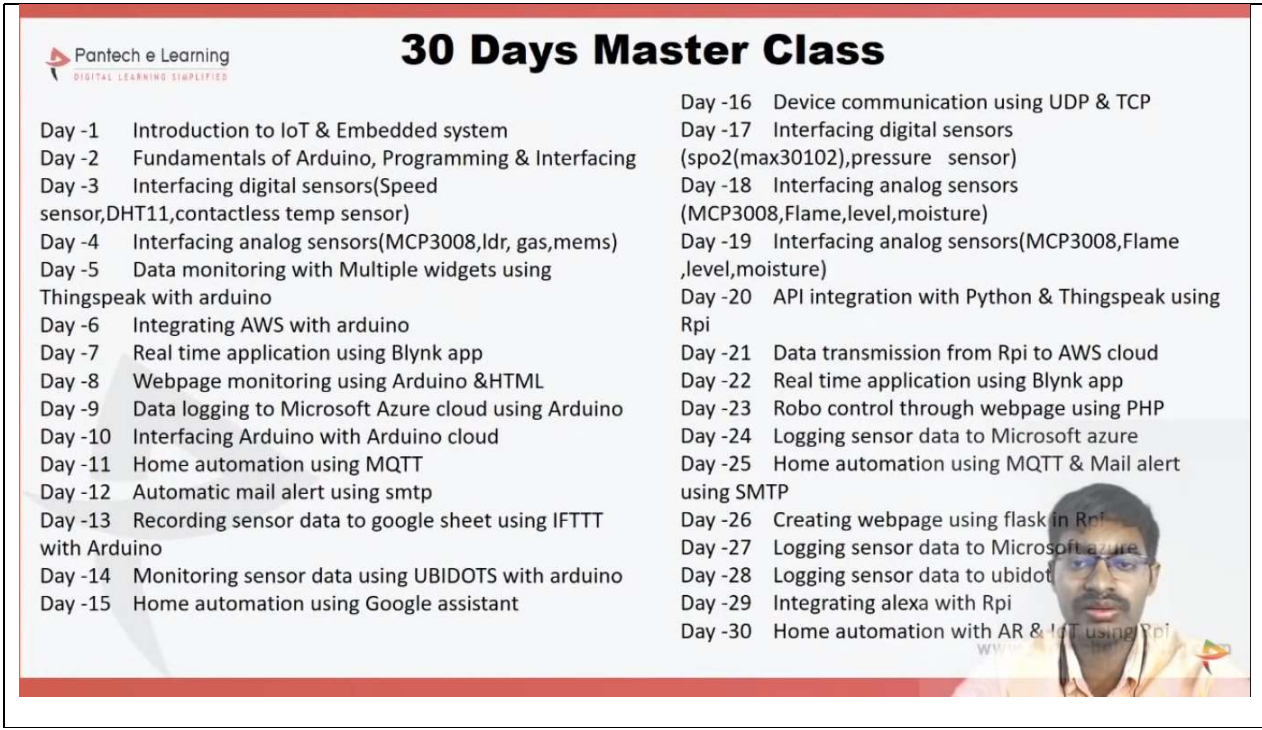
- Objectives :**
1. Recognise the factors that contributed to the emergence of IoT
 2. Design and program IoT devices
 3. Use real IoT protocols for communication

- Outcomes:**
1. Design an IoT device to work with a Cloud Computing infrastructure.
 2. Transfer IoT data to the cloud and in between cloud providers
 3. Define the infrastructure for supporting IoT deployments

Activity Description:

This session is organized and conducted on "30 day IoT Master Class" for all SE,TE,BE (E & TC) Students. Through this initiative we aim for active learning of our students by Eminent personalities from industry, so that they will benefit for their future endeavors and through the eminent personality guidance we can highlight the opportunity in this domain. This initiative was the collaboration of AP State Skill Development Corporation (APSSDC) and Pantect Learning.

Event Photos:



Pantect e Learning
DIGITAL LEARNING SIMPLIFIED

30 Days Master Class

Day -1	Introduction to IoT & Embedded system	Day -16	Device communication using UDP & TCP
Day -2	Fundamentals of Arduino, Programming & Interfacing	Day -17	Interfacing digital sensors (spo2(max30102),pressure sensor)
Day -3	Interfacing digital sensors(Speed sensor,DHT11,contactless temp sensor)	Day -18	Interfacing analog sensors (MCP3008,Flame,level,moisture)
Day -4	Interfacing analog sensors(MCP3008,ldr, gas,mems)	Day -19	Interfacing analog sensors(MCP3008,Flame ,level,moisture)
Day -5	Data monitoring with Multiple widgets using Thingspeak with arduino	Day -20	API integration with Python & Thingspeak using Rpi
Day -6	Integrating AWS with arduino	Day -21	Data transmission from Rpi to AWS cloud
Day -7	Real time application using Blynk app	Day -22	Real time application using Blynk app
Day -8	Webpage monitoring using Arduino &HTML	Day -23	Robo control through webpage using PHP
Day -9	Data logging to Microsoft Azure cloud using Arduino	Day -24	Logging sensor data to Microsoft azure
Day -10	Interfacing Arduino with Arduino cloud	Day -25	Home automation using MQTT & Mail alert using SMTP
Day -11	Home automation using MQTT	Day -26	Creating webpage using flask in Rpi
Day -12	Automatic mail alert using smtp	Day -27	Logging sensor data to Microsoft azure
Day -13	Recording sensor data to google sheet using IFTTT with Arduino	Day -28	Logging sensor data to ubidot
Day -14	Monitoring sensor data using UBIDOTS with arduino	Day -29	Integrating alexa with Rpi
Day -15	Home automation using Google assistant	Day -30	Home automation with AR & IoT using Rpi

Image 1: Master Training contents

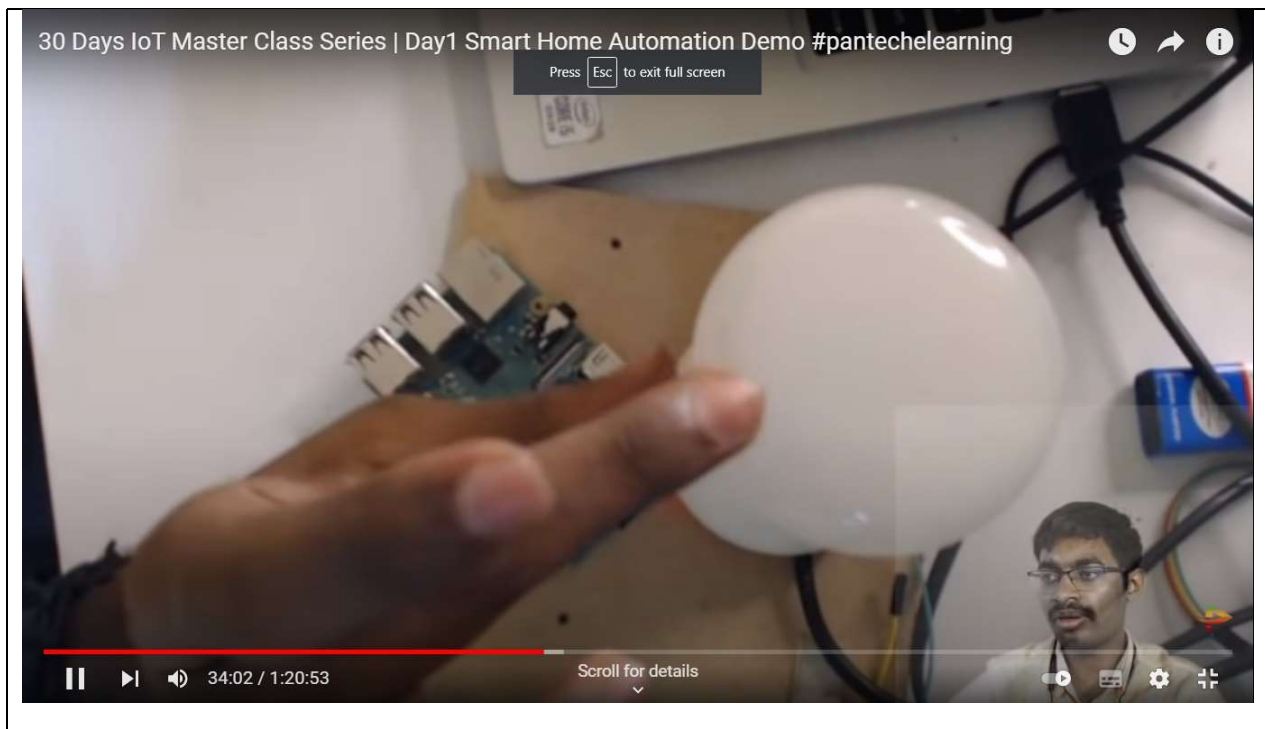


Image 2: Case Study: Smart Home Automation

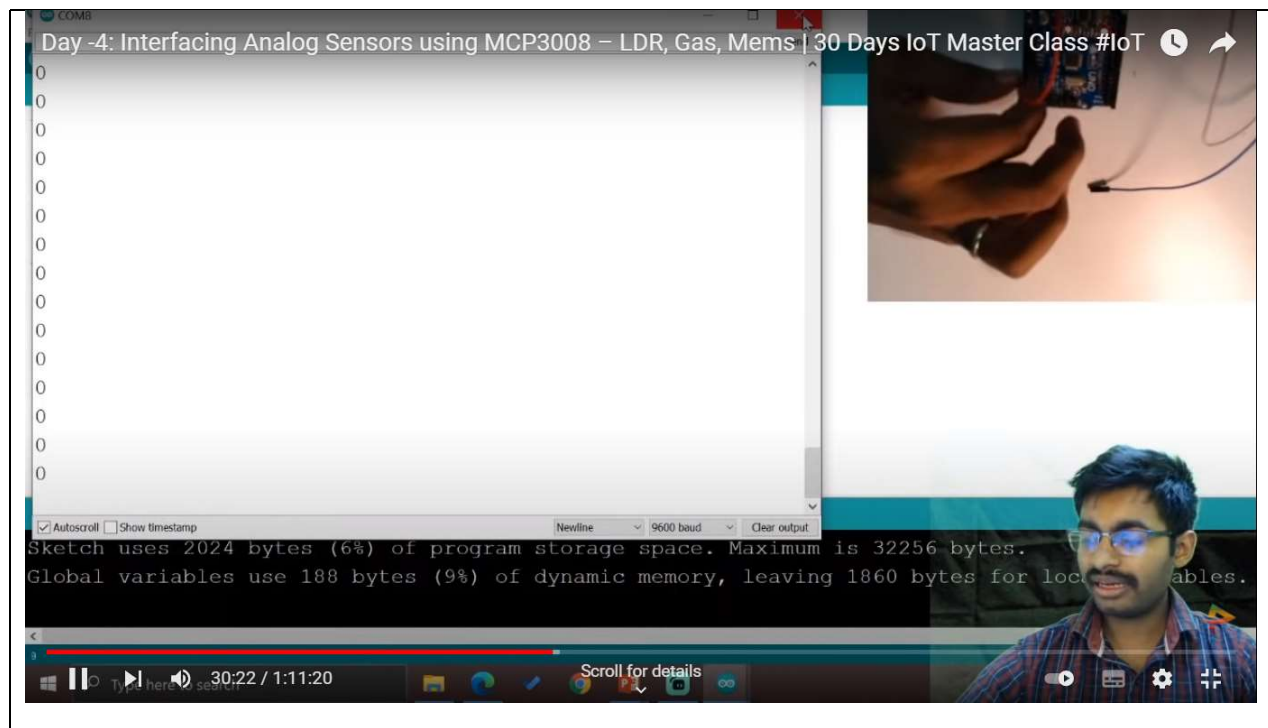


Image 3: Sensor Interfacing with computing devices