

Basic Industrial IOT

2 Weeks

- Introduction to IoT
 - What is IoT?
 - IoT structure
 - Application of IoT
- IoT Data Acquisition & Platforms
 - Microcontrollers
 - OS & drivers
 - Hardware & software requirements
- Communication & Technologies in IoT
 - Data transfer in wireless / wired connectivity
 - MQTT,HTTP,API,REST-API
 - ZIGBEE, NB-IoT, Wi-Fi, THREAD, RFID
- Programming Environment
 - Programming boards
 - Programming language
 - Arduino IDE
- Hardware Interfacing
 - Sensors & actuators
 - Sensor Interfacing with programming Boards
- Projects/Practical's
 - Data store in Web server(DHT11)
 - Data store in Thingspeak
 - Home automation using Alexa
 - Home automation using Blynk 2.0