SKYY RIDER INSTITUTIONS FOR ADVANCED SKILL & RESEARCH

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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





