



IOT  
IOL



School Of Electronics Engineering

### Module 1

1. Introduction to IoT.
2. Arduino, ESP8266, NodeMCU, Arduino IDE.
3. Blinking, LED pattern printing.
4. Basic Terminologies.
5. Introduction to Sensors, Sensors Brief.

### Module 2

1. WiFi Library Brief.
2. WiFi Modes.
3. Client and Server overview.
4. Connecting and Scanning to nearby WiFi networks.
5. Connect to the strongest RSSI value.

### Module 3

1. Basics of HTML, Tags in HTML.
2. Blinking of an LED via WebPage.
3. Network Protocols (HTTP and MQTT).

### Module 4

1. IR, LDR Sensor data to Thingspeak cloud.
2. Real-time Temperature Monitoring System.
3. Think Speak cloud with various Graphs.
4. Google Firebase sending and retrieving data.

### Module 4

1. Blynk App.
2. IFTTT.
3. Adafruit IO.
4. Intrusion detection using Adafruit IO.

### Module 4

1. Displaying the Weather Forecast of a particular location.