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** Note: This syllabus may be vary as per the requirement

Module	Internet of Things (IoT)	
1	What is IoT?	Evolution of Internet IoT for the general world IoT for technology professionals Technical knowhow needed for IoT Embedded Systems
2	Overview of Open source hardware	What is open source hardware? Arduino Node-MCU Beagle bone Intel Galileo ESP8266
3	Building components for IoT (Types, Purpose and Application, Overview)	Sensors Motors Actuator Power adapters Shields
4	Setting up first Node-MCU	Lab1 – Configuration Making essential connections Booting up the Node-MCU Running simple programs Lab2 - Programming and Interfacing LED with Node-MCU Lab3 - Interfacing Sensor with Node-MCU and analyzing the data
5	Overview of Communication protocols used in IoT	Wi-Fi Hot-spot
6	Advance technologies and concepts building up the IoT	IPv6 Sensor networks Cloud computing M2M Wearable's Complex Event Processing (CEP)

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7	Creating a live IoT solution	Setting up the development board –IDE Connecting required components Setting up solution design Final implementation
8	IoT Hands-on	Lab4- Writing a Code for MQTT Publishing Client Lab5- Publishing sensor data from Node-MCU using MQTT analyzing data on
9		Lab6 – Writing a Code for MQTT Subscribing Client Lab7- Controlling devices/appliances connected to Node-MCU over MQTT from
10	IoT Cloud Services	cloud4rpi – an open IoT Cloud Platform : Lab8 – Analyzing telemetry sensor data from Node-MCU on cloud using HTTP
11	Advance technologies and concepts building up the IoT (Overview)	IPv6 Sensor networks IoT Gateway Cloud computing M2M

** we will also implement some projects of Internet of Things (IoT) along with that.

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