

Prof Deepak  
BITM

- More than 11 Years of Industry and Mentoring Experience
- 2. Currently working as Subject Matter Expert in Telecom Management Organisation
- 3. My area of Expertise is Embedded Systems, IOT & LTE
- 4. Till now trained more than 2000 students of BE, M.TECH & MBA Students on different Platforms

### **SESSION-1:**

Basic IOT Architecture (1 Hour)  
End-To-End IOT Architecture with detailed explanation  
IOT Application or Use-Case with IOT Analytics  
IOT Market Landscape/Business or JOB opportunities in detail  
Availability of Readymade IOT Hardware + Software + Platform solutions

### **SESSION-2:**

Hardware Design & Interfacing (1 Hour)  
Embedded Hardware Overview  
Arduino Programming Fundamentals: Arduino IDE  
Hands on Session: Read Real world data from Analog/Digital sensors & Actuators/Output interfacing with microcontroller.

### **SESSION-3:**

Energy & Industrial Applications on Blynk IOT cloud platform (1Hour)

Communication Channel- Ethernet/Wi-Fi  
Messaging Protocol- SMTP/REST/Web Socket

IOT Cloud Platform- BLYNK IOT Platform

### **SESSION-4:**

Environmental Applications on thing-speak IOT cloud platform (1 Hour)

Connectivity Protocol- GPIO(Wired)  
Communication Channel- Ethernet  
Messaging Protocol- REST/Web Socket  
IOT Cloud Platform- Thing Speak IOT Platform

### **SESSION-5:**

Node MCU ESP8266 (1Hour)

Driver installation on Node MCU

Flashing Node MCU

Configuring Wi-Fi Interfacing & connect to the internet

Connecting Node MCU using IOT Blynk Platform

Web Server implementation on Node MCU