



madBlocks
Technology:Innovation:Business

4-DAY ONLINE IOT BOOTCAMP

27th July - 30th July 2021 - Arduino, Raspberry Pi, ESP32, AWS,
Thingspeak IoT Cloud, Blynk App

TIME	Day 1 27th July	Day 2 28th July	Day 3 29th July	Day 4 30th July	NOTES
Session - 1 10.00 AM to 11.15AM	Introduction IoT Architecture	Raspberry Pi Tools and Demos	Thingspeak IoT Cloud (Part - 1)	Blynk IoT Cloud (Part - 1)	Interfacing LED, Button, Buzzer, LCD Display, IR Sensor, Light Sensor, MQ Series Sensor, Ultrasonic Sensor, Servo Motor, Soil Moisture Sensor, Rainfall Sensor - Arduino, Raspberry Pi, ESP32
Session - 2 11.30 AM to 01.00 PM	Arduino Uno Tools and Demos	Raspberry Pi Basic Electronics	Thingspeak IoT Cloud (Part - 2)	Blynk IoT Cloud (Part - 2)	C ++, Micro Python, Python programming languages for Arduino, ESP32, Raspberry Pi respectively. HTTP REST API, MQTT Protocols on ESP32, Raspberry Pi
Session - 3 02.00 PM to 03.15 PM	Arduino with Sensory Systems	Raspberry Pi Sensory Systems	AWS EC2 Virtual Server (Part - 1)	IoT + ML (Part - 1)	Thingspeak IoT Cloud, AWS EC2, Blynk IoT Cloud will be used as a cloud in demos.
Session - 4 03.30 PM to 05.00 PM	Arduino with Basic Electronics	Raspberry Pi IoT Protocols	AWS EC2 Virtual Server (Part - 2)	IoT + ML (Part - 2)	IoT Devices which keeps collecting data and this data will be fed to ML models for training and prediction will also be shown.