Course Title:

Internet of Things (IoT) : Programming with Cloud IoT Platforms & Data-Driven Decision Making Foundation.

Course Overview:

This course aims to introduce the cloud IoT platform and how it can be used in developing IoT applications & by implementing the right reporting tools and understanding how to accurately analyze and measure your data, you will be able to make the kind of data -based decisions that will drive your business forward.

Course Duration:

5 Days

Course Type:

Technical/ Hard Skills

Course Delivery Method:

- Face to Face Lecturing
- Hands-on/Practical
- Assesment/Test

Course Content:

5 -day course - Internet of Things (IOT) theory and practice that includes:

- Introduction to IoT
- Programming IOT with Blynk & Favoriot
- Programming IOT with Google Data Studio
- Creating Dashboard with Google Data Studio

Each participant will be given Internet of Things Kits (Hibiscus Board, Breadboard 830 Point, 5x 220Ohm resistor, 5x 10kOhm resistor, 3x Red LED, 3x Green LED, 3x Yellow LED, 2x Pushbutton with Cap, 1x LDR (Light Dependent Resistor), 1x Transistor 2N2222,1x DC Motor with Wires, DHT11 Humidity & Temperature Sensor, USB Cable Type A to Mini, 20x 10CM Dupont Jumper Wires M/M, ToF Sensor, Ultrasonic Sensor).

Target Audience:

This course is suitable for Technicians, Supervisors, Engineers, Manages & all individuals interested in IoT.

COURSE OUTLINE

Day	Time	Topics	Delivery Method	Assessment
1	0900 - 1000	Introduction to Internet of Things	Lecture	Pre-Test
	1000 - 1200	Arduino and its Applications	Lecture, Practical, Tutorial	
	1200 - 1400	Rest, Lunch and Zuhr Pray		
	1400 - 1630	Blynk IoT Platform	Lecture, Practical, Tutorial	
2	0900 - 1000	Internet of Things Connectivity	Lecture	Pre-Test
	1000 - 1200	Favoriot IoT Platform (HTTP)	Lecture, Practical, Tutorial	
	1200 - 1400	Rest, Lunch and Zuhr Pray		
	1400 - 1630	Favoriot IoT Platform (MQTT)	Lecture, Practical, Tutorial	
3	0900 - 1000	Introduction to Thingspeak Arduino	Lecture	Pre-Test
	1000 - 1200	Internet of Things Development	Lecture, Practical, Tutorial	
	1200 - 1400	Rest, Lunch and Zuhr Pray		
	1400 - 1630	Creation of Dashboard	Lecture, Practical, Tutorial	
4	0900 - 1000	Internet of Things Development Platform	Lecture, Tutorial	Pre-Test
	1000 - 1200	Introduction to Node-RED Lecture, Practical,	Lecture, Practical, Tutorial	
	1200 - 1400	Rest, Lunch and Zuhr Pray		
	1400 - 1630	Node-RED and InfluxDB Time Series Database	Lecture, Practical, Tutorial	
5	0900 - 1000	Node-RED Integration to Google Sheet	Lecture, Practical, Tutorial	Pre-Test & Post-Test
	1000 - 1200	Google Data Studio	Lecture, Practical, Tutorial	
	1200 - 1400	Rest, Lunch and Zuhr Pray		
	1400 - 1630	Google Data Studio	Lecture, Practical, Tutorial	