

COURSE CONTENT

Day	Session	Topic	Content
1	1	Introduction to IOT	<ul style="list-style-type: none"> ·What is IOT? ·Basics of IOT ·Applications of IOT
1	1	Introduction to Arduino	<ul style="list-style-type: none"> What is Arduino? ·What is Open Source Microcontroller Platform? ·Basics of Electronics ·Sensors and Actuators
1	1	Hands on Arduino	<ul style="list-style-type: none"> ● Fundamentals of C programming ·Hello to the Microcontroller World (Your First Arduino Sketch) ·Interfacing Sensors With Arduino ·Reading From Sensors
1	2	Basics of Networking	<ul style="list-style-type: none"> Networking Fundamentals ·Types of Networks ·Network Topologies

			·Network Topologies
1	2	Arduino with Bluetooth	·Interfacing Bluetooth Module With Arduino ·Controlling Arduino With Android Device Making Android App Using Online Tools ·Intro to MIT App inventor ·Making your first Android App ·Control Arduino With Your First App
2	3	Arduino with Esp8266	·Interfacing With Ethernet ·Interfacing With Ethernet ·Creating program for Local host Web Server Hello to the Online World ·What are cloud Servers ·Cloud computing and IOT
2	4	Send Voltage & Analog Data on Cloud Server.	<ul style="list-style-type: none"> • Cloud Computing • Communicating with the Cloud using Web Services.

			<ul style="list-style-type: none"> • Cloud Computing & IoT. • Popular Cloud Computing Services for Sensor Management.
2	4	<p>Project 1: Creating own Android App using MIT App Inventor & controlling Arduino connected devices.</p> <p>Project 2: Being Social on Twitter & update status on Twitter through Arduino</p>	<ul style="list-style-type: none"> • Make Electronics Gadget Talk to Internet • Integrating Ethernet Module • Creating App on Twitter
2	4	<p>Project 3: Send Voltage & Analog Data on Cloud Server.</p> <p>Project 4: Use Arduino to Upload free data from Environmental Sensors to Cloud Server.</p>	<ul style="list-style-type: none"> • Cloud Computing • Communicating with the Cloud using Web Services. • Cloud Computing & IoT. • Popular Cloud Computing Services

		<p>Project 5: Automatically Tweet Sensor Data on Twitter.</p> <p>Project 6: Receive Automatic Call Notification on Mobile Phone for Burglar Alarm using IoT Platform.</p>	<p>for Sensor Management.</p>
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