



IOT - Curriculum

SI.No	Торіс
1	Introduction to course
1.1 1.2 1.3 1.4	Brief Introuction to IoT IoT Architechture Embedded.System Controller & Processor
2	Creating account on Tinkercad
2.1 2.2 2.3	Basic of Arduino LED Led blinking.assignment1
3	Blinking assignment Solution
3.1 3.2 3.3 3.4 3.5	Serial.communication For loop User Input Controlling With User Input Pushbutton LED
4	Introduction to PWM
4.1 4.2 4.3 4.4	GPIO LED.Forward.voltage Potentiometer String Input Assigment solution
5	Potentiometer mapping Assigment Solution
5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8	Concept of RBG Understanding breadboard RGB project Sensor Basic & Ultrasonic sensor Ultrasonic sensor working Temperature Sensor Assignment Solution Temperature Sensor





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SI.No	Topic
6	Introduction to Robotics
6.1 6.2 6.3 6.4 6.5	DC motor & L293D Command to Motor Solution Manual command Assignment Motor Servo motor
7	Remote Control robot
7.1 7.2 7.3	Obstacle Avoidance robot Obstacle Avoidance robot continue Speed control of motor
8	Introduction.To.IoT
8.1 8.2 8.3	Component of IoT Selection.of.loT.Board Case.study.on.loT.Product
9	Introduction.To.Thinkspeak
9.1 9.2 9.3 9.4 9.5 9.6 9.7	Thinkspeak.HTTP LED.blinking IR.Sensor ultrasonic.Sensor Air.quality.Sensor Soil.moisture.sensor DHT11.sensor.Serial.monitor
10	Introduction.To.MIT.App.Inventor
10.1 10.2	Speech.To.Text.App IoT.App





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SI.No	Topic
12	Smart.Home.automation
12.1	Adafruit.dashboard
12.2	Relay.application
12.3	Mosquitto.process
12.4	Mosquitto.project
12.5	Mosquitto.Authentication
12.6	Mosquitto.Authentication.continued
12.7	Adafruit_MQTT
13	Introduction.To.Python.programming
13.1	Python programming.1
13.2	Python.programming
13.3	Pycharm.installation
14	Introduction.To.Socket.Programming
14.1	Server.Client.Implementation
14.2	Socket.Chat.Room
14.3	UART&I2C&SPI
15	World.Map.Covid.19.Dashboard
15.1	World.Map.Covid.19.Dashboard.final
PROJECT	
1	Automatic Room Temperature Controller
2	Voice Control Home Automation
3	Smart Building using BLYNK
4	Obstacle Avoidance Robot using Ultrasonic Sensor
5	loT based Smart Factory System