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"Internet of Things (IoT) and its Applications" (22.03.2021 to 25.03.2021)

SESSION PLAN

DAY 1 - 22.03.2021	
Time	TOPICS TO BE COVERED
9:00AM to 09:30AM	Inauguration
9:30AM to 10:30AM	 ✓ Introduction to Internet of Things(IoT) ✓ Architecture of IoT ✓ IoT communication Model ✓ Converting "Things" to "Smart Things"
10:30AM to 10:45AM	Break
10:45AM to 12:30PM	 ✓ Introduction to Arduino Uno ✓ Specification of Arduino Uno ✓ Pin Description of Arduino Uno ✓ Software installation & Interfacing Arduino Board
12:30PM to 01:00PM	Lunch break
01:00PM to 02:15PM	 ✓ LED Control (digitalWrite) ✓ Button Interfacing (digitalRead) ✓ Project: When button is pressed switch LED ON for 5Sec and OFF for 3 Sec
02:15PM to 02:30PM	Break
02:30PM to 03:30PM	 ✓ Potentiometer Interfacing (analogRead) ✓ PWM control(analogWrite) ✓ Serial Communication(Serial.Read) ✓ Project: Switch on the LED when we send "H" & OFF when we send "K"
	DAY 2 - 23.03.2021
9:30AM to 10:30AM	 ✓ Introduction to Blynk ✓ Installing Blynk library in Arduino IDE ✓ Installing Blynk app in Android mobile ✓ Creating account and generating token for Arduino Uno
10:30AM to 10:45AM	Break
10:45AM to 12:30PM	 ✓ Controlling LED using Blynk app ✓ Controlling RGB LED using zeRGBainBlynk app ✓ Project: Control Red, Yellow and Green Led using blynk mobile app
12:30PM to 01:00PM	Lunch break
01:00PM to 02:15PM	 ✓ Controlling brightness of LED using Slider in blynk app ✓ Using Notification function in Blynk app ✓ Project: When the Potentiometer value is less than 500 send notification
02:15PM to 02:30PM	Break



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02:30PM to 03:30PM	 ✓ Controlling Relay using Blynk app ✓ Monitoring LDR value using Gauge in Blynk app ✓ Project: IoT based smart street light 	
DAY 3 - 24.03.2021		
9:30AM to 10:30AM	 ✓ Rain Drop monitoring using Blynk app ✓ Soil Moisture level monitoring using Blynk app ✓ Project: Smart Irrigation system- Send Notification to mobile when soil moisture level is wet 	
10:30AM to 10:45AM	Break	
10:45AM to 12:30PM	 ✓ PIR Sensor Moduleusing Blynk app ✓ LCD Widget Interfacing using Blynk app ✓ Project: Detect the person entry and display it in LCD widget 	
12:30PM to 01:00PM	Lunch break	
01:00PM to 02:15PM	 ✓ IR sensor interfacing using Blynk app ✓ Flame sensor interfacing using Blynk app ✓ Project: Switch Buzzer ON when fire is detected & send notification to mobile 	
02:15PM to 02:30PM	Break	
02:30PM to 03:30PM	 ✓ Joystick interfacing using Blynk app ✓ Proximity sensor interfacing using Blynk app ✓ Project: Control your Room Lights using your Computer 	
	DAY 4 - 25.03.2021	
9:30AM to 10:30AM	 ✓ Capacitive Touch Sensor interfacing using Blynk app ✓ DC motor speed control using Blynk app ✓ Project: Switch on the Motor when the touch sensor is pressed 	
10:30AM to 10:45AM	Break	
10:45AM to 12:30PM	 ✓ Serial Communication using Terminal in Blynk app ✓ Real time data monitoring using Superchart in Blynk app ✓ Project: Control LED from your mobile. Send 1 to ON and 2 to OFF. 	
12:30PM to 01:00PM	Lunch break	
01:00PM to 03:00PM	Concept Discussion ✓ IOT Car Parking System ✓ Smart Dustbin with IOT Notifications ✓ IOT Based ICU Patient Monitoring System ✓ Weather Reporting Over IOT ✓ IOT Color Based Product Sorting Machine Project. Project Competition	
03:00PM to 03:30PM	Valedictory Function	