ESIOT LAB submission in the Shared folder

1.   Study of Raspberry-Pi, Beagle board, Arduino and other micro controller (History & Elevation) (word or PDF)

2.   Study of different operating systems for Arduino / Raspberry-Pi /Beagle board. Understanding the process of OS installation on Raspberry-Pi /Beagle board (word or PDF)

3.   Study of Connectivity and configuration of Arduino /Raspberry-Pi /Beagle board circuit with basic peripherals, LEDS. Understanding GPIO and its use in program. (Word or PDF)

Following experiment should be submitted using Tinker cad platform using Arduino.

4.   HC- SR04 Ultrasonic Module (video with explanation)

5.   IR Infrared Obstacle Avoidance sensor (video with explanation)

6.   Soil Moisture Sensor (video with explanation)

7.   Microphone sensor(video with explanation)

8.   Digital Barometric Pressure Sensor(video with explanation)

9.   Photoresistor sensor(video with explanation)

10.   Digital thermal sensor – Temperature sensor(video with explanation)

11.   MQ-2 Gas sensor

12.   (PIR sensor)motion sensor

13.   Humidity and Rain Detection sensor

14.   Passive Buzzer Module

15.   Speed sensor Module

16.   IR Infrared Flame Detection sensor

17.   5V 2- Channel Relay module

18.   HC- SR501 Pyroelectric Infrared Sensor

19.   Accelerometer Module

20.   DHT11 Temperature and Humidity sensor

Last Date for submission is 30th May 2021

Evolution for Term work will be done on the basis of following

   a) **Theory and practical attendance.**
   b) **Quality of submission of video and Explanation**
   c) **Sharing the video using lesser size .**