

INTERNET OF THINGS LAB (Pr.- 02)

Date of Commencement of Classes: 14.03.2022

Date of Closing of Classes: 11.06.2022

LIST OF MONTH WISE AVAILABLE WEEKS

Sl. No.	Month	Week-wise no. of academic days available					Total no. of weeks
		Week- 1	Week- 2	Week- 3	Week- 4	Week- 5	
1	March	--	--	4	6	3	03
2	April	2	5	4	4	6	05
3	May	5	4	4	5	2	05
4	June	4-1	6	--	--	--	02
Total		10	15	12	15	11	15

NO. OF AVAILABLE CLASSES PER WEEK/ MONTH

Sl. No.	Month	No. of available weeks	Week-wise no. of Lab Classes available					Total no. of Lab Classes
			Week- 1	Week- 2	Week- 3	Week- 4	Week- 5	
1	March	03	--	--	1	1	1	03
2	April	05	1	1	1	1	1	05
3	May	05	1	1	1	1	1	05
4	June	02	1	1	--	--	--	02
Total		15	3	3	3	3	3	15

EXPERIMENT-WISE DISTRIBUTION OF PERIODS

Sl. No.	Name of the Experiment	Required no. of Lab Classes	Expected Marks
01	Basics of C language using Arduino IDE <input type="checkbox"/> Understating basics of Arduino IDE <input type="checkbox"/> Variables, data type, loops, control statement, function	2	06
02	Practical using Arduino-interfacing sensors Interfacing Light Emitting Diode (LED)- Blinking LED	1	04
03	Interfacing Button and LED – LED blinking when button is pressed.	1	04
04	Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic night lamp	2	06
05	Interfacing Temperature Sensor (LM35) and/or humidity sensor (e.g.DHT11)	1	06
06	Interfacing Liquid Crystal Display (LCD) – display data generated by sensor on LCD	2	06
07	Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD , switch on LED when data sensed is higher than specified value.	2	06
08	Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone on Arduino and display on LCD	2	06
09	Interfacing Relay module to demonstrate Bluetooth based home automation application. (using Bluetooth and relay).	1	06
TOTAL		14	50

Sign of Lab I/C

Sign of HOD

Sign of AIC

Sign of Vice Principal

LESSON PLAN

Name of the Month	Week No.	Class day	Details of Practical Topics
M A R C H	3 rd	1 st	Basics of C language using Arduino IDE <input type="checkbox"/> Understating basics of Arduino IDE <input type="checkbox"/> Variables, data type, loops, control statement, function
	4 th	1 st	
	5 th	1 st	Practical using Arduino-interfacing sensors Interfacing Light Emitting Diode (LED)- Blinking LED
A P R I L	1 st	1 st	Interfacing Button and LED – LED blinking when button is pressed.
	2 nd	1 st	Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic night lamp
	3 rd	1 st	
	4 th	1 st	Interfacing Temperature Sensor (LM35) and/or humidity sensor (e.g.DHT11)
	5 th	1 st	Interfacing Liquid Crystal Display (LCD) – display data generated by sensor on LCD
1 st	1 st		
M A Y	2 nd	1 st	Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD , switch on LED when data sensed is higher than specified value.
	3 rd	1 st	
	4 th	1 st	Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone on Arduino and display on LCD
	5 th	1 st	
	J U N E	1 st	1 st
2 nd		1 st	Practice