

**PNS SCHOOL OF ENGG. & TECH., MARSHAGHAI
LESSON PLAN**

WEEK	CLASSDAY	PRATICAL TOPICS
1ST	1ST	Introduction to IoT. Arduino installation
	2ND	Basics of Arduino IDE
2ND	1ST	Types of Arduino IDE
	2ND	Arduino kit
3RD	1ST	Variables, data types, loops,
	2ND	control statement, function
4th	1ST	Interfacing Light Emitting Diode(LED)- Blinking LED
	2ND	
5th	1ST	Interfacing Button and LED – LED blinking when button is pressed
	2ND	
6th	1ST	Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic night lamp
	2ND	
7th	1ST	Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g.DHT11)
	2ND	
8th	1ST	Interfacing Liquid Crystal Display(LCD) – display data generated by sensor on LCD
	2ND	
9th	1ST	Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD , switch on LED when data sensed is higher than specified value.
	2ND	
10th	1ST	Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone on Arduino and display on LCD
	2ND	
11th	1ST	Interfacing Relay module to demonstrate Bluetooth based home automation application. (using Bluetooth and relay).
	2ND	
12th	1ST	Record checking and final submission.
	2ND	
Signature of the Demonstrator		Signature of the H.O.D