

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

BRANCH: CSE	SEMESTER : 6TH	NAME OF TEACHING FACULTY : <b>ER. BALARAM DAS</b>
SUBJECT: IoT Lab	NO. OF DAYS/ PER WEEK CLASS ALLOTTED : 2	SEMESTER FROM DATE : 22.12.2025 TO 18.04.2026 NO. OF WEEKS : 12
WEEK	CLASSDAY	PRATICAL TOPICS
	1ST	Introduction to IoT. Arduino installation
1ST	2ND	Basics of Arduino IDE
	1ST	Types of Arduino IDE
2ND	2ND	Arduino kit
	1ST	Variables, data types, loops,
3RD	2ND	control statement, function
	1ST	Interfacing Light Emitting Diode(LED)- Blinking LED
4th	2ND	
	1ST	Interfacing Button and LED - LED blinking when button is pressed
5th	2ND	
	1ST	Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic
6th	2ND	night lamp
	1ST	Interfacing Temperature Sensor(LM35) and/or humidity sensor (e.g.DHT11)
7th	2ND	
	1ST	Interfacing Liquid Crystal Display(LCD) – display data generated by sensor on
8th	2ND	LCD
	1ST	Interfacing Air Quality Sensor-pollution (e.g. MQ135) – display data on LCD ,
9th	2ND	switch on LED when data sensed is higher than specified value.
	1ST	Interfacing Bluetooth module (e.g. HC05)- receiving data from mobile phone
10th	2ND	on Arduino and display on LCD
	1ST	Interfacing Relay module to demonstrate Bluetooth based home automation
11th	2ND	application. (using Bluetooth and relay).
	1ST	Record checking and final submission.
12th	2ND	

*Balaram Das*

Signature of the Demonstrator

*Biswaranjan Swain*

Signature of the H.O.D