

LESSON PLAN

SUB: INTERNET OF THINGS LAB
BRANCH:- COMPUTER SCIENCE & ENGG.

SEMESTER: 6th

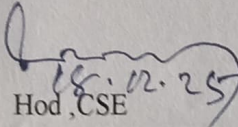
NAME OF FACULTY: SOUDAGAR JENA (GF IN CSE)

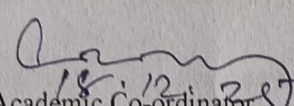
NAME OF FACULTY: ABHISHEK PADHI (GF IN CSE)



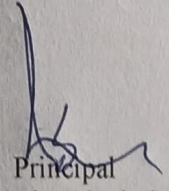
GOVERNMENT POLYTECHNIC, BHADRAK

SESSION: 2025-26


Hod, CSE


Academic Co-ordinator

Academic Co-ordinator Govt. Polytechnic, Bhadrak


Principal

DEPARTMENT OF Computer Science & Engg.,

Discipline: Computer Science & Engineering	Semester: 6th Summer /2025	Name of the faculty: Soudagar Jena & Abhishek Padhi Email Id: abhayafcs@kp.kiit.ac.in abhishekpadi24@gmail.com
Subject: Internet of Things Lab (Pr.2)	No. of Days/week: 02 (2 periods / Day)	StartDate: 22.12.2025 EndDate: 18.04.2026

Week	Class Day	Practical Topics
1 st	1st	Introduction to Arduino, Arduino - Board Description
	2nd	Arduino- Installation
2 nd	1st	Understating basics of Arduino IDE
	2nd	Revision/Assessment class
3 rd	1st	Basics of C language using Arduino IDE, Variables, Datatypes
	2nd	Control statements
4 th	1st	Loops statements
	2nd	Functions
5 th	1st	Revision/Assessment
	2nd	Practical using Arduino-interfacing sensors
6 th	1st	Interfacing Light Emitting Diode (LED)- Blinking LED
	2nd	Revision/Assessment
7 th	1st	Interfacing Button and LED – LED blinking when button is pressed
	2nd	Revision/Assessment
8 th	1st	Interfacing Temperature Sensor (LM35)
	2nd	Revision/Assessment
9 th	1st	Interfacing Temperature and Humidity Sensor (DHT11)

	2nd	Revision/Assessment
10 th	1st	Interfacing Light Dependent Resistor (LDR) and LED, displaying automatic night lamp
	2nd	Revision/Assessment
11 th	1st	Interfacing Liquid Crystal Display (LCD) – display data generated by sensor on LCD
	2nd	Revision/Assessment
12 th	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	Revision/Assessment
13 th	1st	Interfacing Bluetooth module (e.g., HC05)- receiving data from mobile phone on Arduino and display on LCD
	2nd	Revision/Assessment
14 th	1st	Interfacing Relay module to demonstrate Bluetooth based home automation application. (Using Bluetooth and relay).
	2nd	Interfacing Relay module to demonstrate Bluetooth based home automation application using Bluetooth and relay (Cont..).
15 th	1st	Revision/Assessment
	2nd	Revision/Assessment

Soumitra Jena
 Abhishek Padhi
 Signature of faculty