

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN Session-2024-2025

Semester: 6th Discipline: Computer Sc. Engg.

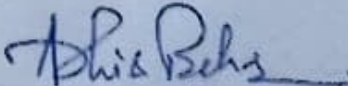
Subject: Internet of Things.

Name of the Teaching Faculty: Ashis Behara

Subject: 10T No. of Days/per week class allotted : 04

Semester From Date : 4/2/2025 To Date: 17/05/2025 No. of Weeks : 15

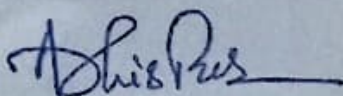
Week	Class Day	Theory / Practical Topics
	1	Introduction to 10T
	2	Categories, application of 10T
1	3	50T enables and Connectivity layers.
	4	Baseline Technology.
	1	Types of Sensors and Actuators.
	2	50T Components, Implementations & Challenges.
2	3	50T Networking And Technologies.
	4	Gateway prefix allotment.
	1	Multi homing
	2	Multi homing.
3	3	10T Identification and data Protocol
	4	data Protocol.


Signature of the Faculty

Subject: 10T No. of Days/per week class allotted : 04

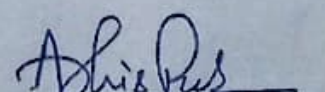
Semester From Date : 04/2/2025 To Date: 17/05/2025 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
	1	Connectivity Protocol IEEE 802.11
	2	Zigbee Protocol.
4	3	Bluetooth Protocol
	4	RFID & HART. Protocol.
	1	NFC & Bluetooth
	2	ZWave and ISO 550.11.0
5	3	Introduction to WSN & Component of Sensor.
	4	Detection Mode and Challenges.
	1	Co-operation, behaviour and Self-mgmt of Node.
	2	Application of WSN
6	3	WSN Coverage.
	4	Stationary and Mobile WSN


Signature of the Faculty

Subject: 10T No. of Days/per week class allotted : 04
 Semester From Date : 04/2/2025 To Date: 12/5/2025 No. of Weeks : 15

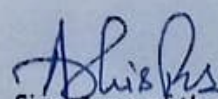
Week	Class Day	Theory /Practical Topics
	1	Introduction to M2M communication
	2	M2M Ecosystem.
7	3	M2M Service Platform
	4	Interoperability.
	1	Interoperability.
	2	Introduction to Arduino
8	3	Arduino Board.
	4	Arduino IDE
	1	Script programming.
	2	Case Study.
9	3	Raspberry PI
	4	Architecture of Raspberry PI


 Signature of the Faculty

Subject: 10T No. of Days/per week class allotted: 04

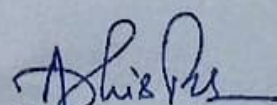
Semester From Date: 4/2/2025 To Date: 17/05/2025 No. of Weeks: 15

Week	Class Day	Theory /Practical Topics
	1	Pin Configuration of Raspberry Pi
	2	Implementation of 10T with Raspberry Pi
10	3	Case Study.
	4	SDN and Architecture.
	1	Rule Placement.
11	2	Open flow protocol.
2	3	Controller Placement
	4	Security on SDN.
	1	Integrating SDN to 10T.
12	2	Smart Home and it's technology.
3	3	Smart Home Implementation.
	4	Home Area Network.


Signature of the Faculty

Subject: 10T No. of Days/per week class allotted : 04Semester From Date : 4/2/2025 To Date: 13/5/2025 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
	1	Home Area Network
	2	Smart home benefits and issues.
13	3	Smart Cities.
	4	Smart City framework.
	1	Data fusion.
	2	Smart Parking.
14	3	Smart Parking.
	4	Energy mgmt in Smart Cities.
	1	Introduction to IIOT.
	2	Design of IIOT
15	3	Application of IIOT.
	4	Benefit and Challenges of IIOT.


Signature of the Faculty