



PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARGARH

LESSON PLAN

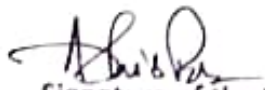
Discipline: Computer & Engg. Engg. Semester: 6th

Name of the Teaching Faculty: ASHIS BHERA.

Subject: Internet Of Things (IoT) No. Of Days/per week class allotted 04

Semester From Date: 15/4/21 To Date: 13/8/21 No. Of Weeks: 15

Week	Class Day	Theory /Practical Topics
1	DAY-1	Introduction to IoT.
	DAY-2	Characteristics, Applications & Category of IoT.
	DAY-3	IOT Enablers and Connectivity layers
	DAY-4	Baseline Technology.
2	DAY-1	A Types of sensors and actuators.
	DAY-2	IOT components and implementation & Challenges
	DAY-3	IOT Network & Terminology
	DAY-4	Gate way Proxy allotment (Procedure)
3	DAY-1	Multihoming/ impact of mobility on Addressing.
	DAY-2	Multihoming.
	DAY-3	IOT identification and data Protocol
	DAY-4	data Protocol.
4	DAY-1	Introduction to Connectivity Tech. (IEEE 802.15.4)
	DAY-2	ZigBee. Protocol.
	DAY-3	6LOWPAN Protocol.

  
Signature of the Faculty



PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARGARH

LESSON PLAN

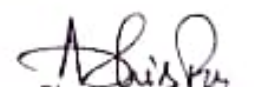
Discipline: Computer Sc & Engg. Engg. Semester: 6th

Name of the Teaching Faculty: ASHIS BEHERA.

Subject: Internet of Things (IoT) No. Of Days/per week class allotted 04

Semester From Date: 15/4/21 To Date: 13/8/21 No. Of Weeks: 15

Week	Class Day	Theory /Practical Topics
	DAY-4	RFID, HART Protocol.
	DAY-1	NFC and Bluetooth
5	DAY-2	ZWave and ISA 100.11.A.
	DAY-3	Introduction to WSN and Components of a sensor nodes.
	DAY-4	Mode of detection, Challenges
	DAY-1	Cooperation and Behaviour of nodes, social-sensing, self mgmt of WSN.
6	DAY-2	Applications of WSN.
	DAY-3	WSN Coverage.
	DAY-4	WSN Coverage, Stationary and Mobile WSN
	DAY-1	Introduction to M2M Communication
7	DAY-2	M2M Ecosystem
	DAY-3	M2M Service Platform.
	DAY-4	Interoperability.
	DAY-1	gsm-d0-
8	DAY-2	Introduction to Arduino

  
Signature of the Faculty



PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARGARH

LESSON PLAN

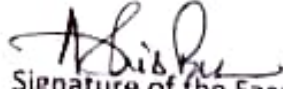
Discipline: Computer Sc & Engg. Engg. Semester: 6th

Name of the Teaching Faculty: ASHIS BEHERA

Subject: Internet of Things (IoT) No. Of Days/per week class allotted 04

Semester From Date: 15/4/21 To Date: 13/08/21 No. Of Weeks: 15

Week	Class Day	Theory /Practical Topics
	DAY-3	Components of Arduino Board.
	DAY-4	
	DAY-1	Arduino IDE
9	DAY-2	Programming on Arduino
	DAY-3	CASE study
	DAY-4	Introduction to Raspberry Pi
	DAY-1	Architecture of Raspberry Pi
10	DAY-2	Pin configuration of Raspberry Pi
	DAY-3	Implementation of IOT with Raspberry Pi
	DAY-4	Case study
	DAY-1	Introduction to SDN, SDN Architecture.
	DAY-2	Rule Placement.
11	DAY-3	Open Flow Protocol
	DAY-4	Controller Placement.
	DAY-1	Security in SDN.
		Integration of SDN in IOT

  
Signature of the Faculty





PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARGARH

LESSON PLAN

Discipline: Computer & Engg. Engg. Semester: 6th

Name of the Teaching Faculty: ASHIS BEHERA

Subject: Internet of Things (IoT) No. Of Days/per week class allotted 04

Semester From Date: 15/4/21 To Date: 13/8/21 No. Of Weeks: 15

Week	Class Day	Theory /Practical Topics
	DAY-2	Introduction to Smart HOME, Origin and Example of Smart Technology.
12	DAY-3	Smart home implementation.
	DAY-4	HOME AREA NETWORK (HAN)
	DAY-1	- do -
13	DAY-2	Smart home benefits and issues.
	DAY-3	Introduction to Smart Cities.
	DAY-4	Smart City framework.
	DAY-1	Challenges & Data Fusion.
14	DAY-2	Smart Parking.
	DAY-3	- do -
	DAY-4	Energy Mgmt in Smart City.
	DAY-1	Introduction to IIOT, IIOT requirements
15	DAY-2	Design of IIOT.
	DAY-3	Application of IIOT
	DAY-4	Benefits and Challenges of IIOT.

  
Signature of the Faculty