ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY

Dicipline:	CSE	Semester: 6th	Name of the Teaching Faculty: Harapriya Rout	
Subject:	IOT	No of Days/Week Class Allotted: 4	Semester From date: 13.2.23 To date 23.5.23	No.of Weeks: 13

WEEK	Class Day	Theory Topics
1	1st	Introduction
	2nd	characteristics
	3rd	Applications of IOT
	4th	IOT categories
	5th	
2	1st	IOT Enables and connection layers.
	2nd	Baseline Technology
	3rd	Terminology
	4th	Gateway prefix allotment
	5th	
3	1st	Impact of mobility on Addressing.
	2nd	multihoming
	3rd	Deviation form Regular web
	4th	IOT identification and Data protocols.
	5th	

WEEK	Class Day	Theory Topics
4	1st	Introduction
	2nd	IEEE 802.15.4
	3rd	Zigbee, 6LoWPAN
	4th	RFID, HART and wireless HART
	5th	
5	1st	NFC, Bluetooth, Zwave, ISA 100.11.A
	2nd	components of a sensor node
	3rd	Arduino IDE
	4th	case studies
	5th	
6	1st	meening of case studies
	2nd	Introduction to Programming with Raspberry.
	3rd	Architecture and pin configuration
	4th	case studies
	5th	

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WEEK	Class Day	Theory Topics
7	1st	implementation of IOT with Raspberry Pi.
	2nd	Basic of case studies
	3rd	limitation of current network
	4th	Introduction of M2M communication.
	5th	
8	1st	m2m communications
	2nd	meaning of m2m communicati
	3rd	m2m Ecosystem
	4th	m2m services platform
	5th	
9	1st	intro probability
	2nd	meaning of programming with Arduino
	3rd	Features of Arduino
	4th	components of Arduino Board.
	5th	

WEEK	Class Day	Theory Topics
10	1st	components of Arduino Board
	2nd	origin and example of smart time Technologies.
	3rd	smart home implementation
	4th	Home Area Network (HAN)
	5th	
11	1st	smart home benefits and issues.
	2nd	characteristics of smart cities.
	3rd	smart city form works.
	4th	challenges in smart cities.
	5th	
12	1st	smart city Frameworks.
	2nd	challenges in smart cities.
	3rd	Data fusion
	4th	smart parking
	5th	

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WEEK	Class Day	Theory Topics
13	1st	IIOT Requirments
	2nd	Design consideration
	3rd	Application of IIOT
	4th	Benefit of IIOT
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	