Department : Information Technology	Semester: 6th	ademic Lesson Plan of Summer 2023
		Name of the teaching faculty: Madhusmita Dalai
Work	Days	Theory
0.00		
Subject: Internet of Things	No. of days/per week class	Semester from: 14th feb2023 to 23rd may 2023
	allotted . 4p/week.	
Feb 3rd week	1°t	Introduction to Internet of Things
	2 nd	Characteristics of IoT
	3 rd	Applications of IoT
	4 th	IoT Enablers and connectivity layers
Feb 4th week	1"	Baseline Technologies, Sensor
	2 nd	Actuator
	3 rd	IoT components and implementation, Challenges for IoT
March 1st week	4 th	IOT Networking, Terminologies
	2 nd	Gateway Prefix allotment
	3 rd	Impact of mobility on Addressing Multihoming
	4 th	Deviation from regular Web
March 2nd week	l st	IoT identification and Data protocols
	2 nd	Connectivity Technologies, Introduction
	3 _{rq}	IEEE 802.15.4,ZigBee, 6LoWPAN
	4 th	RFID, HART and wireless HART
March 3rd week	1 st	NFC, Bluetooth, Z wave, ISA100.11.A
	2 nd	Wireless Sensor Networks Introduction, Components of a sensor node
	3 rd	Modes of Detection, Challenges in WSN, Sensor Web
- N	4 th	Cooperation and Behaviour of Nodes in WSN,Self Management of WSN
March 4th week	l st	Social sensing WSN Application of WSN Wireless Multimedia sensor network
	2 nd	Wirciess Nanosensor Networks, Underwater acoustic sensor networks
	4 th	WSN Coverage, Stationary WSN, Mobile WSN
April Jst week	1 ^{at}	M2M Communication.M2M Ecosystem M2M service Platform, Interoperability
	2 nd	Programming with Arduino Features of Arduino, Components of Arduino Board
	3 rd	Arduino IDE, Case Studies
	4 th	Programming with Raspberry Pi
	3rd	Architecture and Pin Configuration, Case studies
	4th	Implementation of IoT with Raspberry Pi
April 2nd week	1 st	Software defined Networking,Limitation of current network
-	3 rd	Origin of SDN,SDN Architecture
	4 th	Rule Placement, Open flow Protocol Controller placement
	5th	Security in SDN,Integrating SDN in IoT
April 3rd week	1 st	Smart Homes, Origin and example of Smart Home Technologies
	2 nd	Smart Home Implementation, Home Area Networks(HAN)
	3 rd	Smart Home benefits and issues
	4 th	Smart Home benefits and issues
April 4th week	1 st	REVISION
		Smart Cities, Characterisitics of Smart Cities
		REVISION
		Smart city Frameworks, Challenges in Smart cities
May 1st week		Smart city Frameworks, Challenges in Smart cities
		REVISION Control Podice
		Data Fusion, Smart Parking
May 2nd week		Energy Management in Smart cities Industrial IoT
May 2nd week		REVISION
		IIoT requirements
		Design considerations
May 3rd week		Design considerations Design considerations
		Benefits of IIoT
		REVISION
		Challenges of IIoT
May 4th week		REVISION
		REVISION
		REVISION
	4th !	REVISION

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