

<b>LESSON PLAN:</b>		
Discipline: <b>CSE</b>	Semester: <b>6th</b>	Name of the Teaching Faculty: <b>Mrs. Nishita Kindo</b>
Subject: <b>IOT</b>	No. Of Days/per week class allotted: <b>4 periods per week (Mon, Tues,Weds&amp;Thur-1 period each)</b>	From Date: <b>10-03-2022</b> To Date: <b>10-06-2022</b>
<b>WEEK</b>	<b>CLASS DAY</b>	<b>THEORY /PRACTICAL TOPICS</b>
1 <sup>st</sup>	10-03-2022	<b>Syllabus Discussion</b>
2 <sup>nd</sup>	14-03-2022	1.1 Introduction 1.2 Characteristics of IoT 1.3 Applications of IoT
	15-03-2022	1.4 IoT Categories 1.5 IoT Enablers and connectivity layers
	16-03-2022	1.6 Baseline Technologies
	17-03-2022	1.7 Sensor 1.8 Actuator
3 <sup>rd</sup>	21-03-2022	1.9 IoT components and implementation 1.10 Challenges for IoT
	22-03-2022	2.1 Terminologies 2.2 Gateway Prefix allotment
	23-03-2022	2.3 Impact of mobility on Addressing 2.4 Multihoming
	24-03-2022	2.5 Deviation from regular Web 2.6 IoT identification and Data protocols <b>Assignment Cum Revision</b>
4 <sup>th</sup>	28-03-2022	3.1 Introduction 3.2 IEEE 802.15.4
	29-03-2022	3.3 ZigBee, 6LoWPAN 3.4 RFID, Bluetooth
	30-03-2022	3.4 HART and wireless HART 3.5 NFC, Z wave
	31-03-2022	3.5 ISA100.11.A
5 <sup>th</sup>	04-04-2022	<b>Class Test 1</b>
	05-04-2022	4.1 Introduction 4.2 Components of a sensor node
	06-04-2022	4.3 Modes of Detection 4.4 Challenges in WSN
	07-04-2022	4.5 Sensor Web 4.6 Cooperation and Behaviour of Nodes in WSN 4.7 Self-Management of WSN
6 <sup>th</sup>	11-04-2022	4.8 Social sensing WSN 4.9 Application of WSN
	12-04-2022	4.10 Wireless Multimedia sensor network 4.11 Wireless Nano-sensor Networks

	13-04-2022	4.12 Underwater acoustic sensor networks 4.13 WSN Coverage Stationary WSN, Mobile WSN <b>Assignment Cum Revision</b>
7 <sup>th</sup>	18-04-2022	5.1 M2M communication
	19-04-2022	5.2 M2M Ecosystem
	20-04-2022	5.3 M2M service Platform
	21-04-2022	5.4 Interoperability
8 <sup>th</sup>	25-04-2022	6.1 Features of Arduino 6.2 Components of Arduino Board
	26-04-2022	6.3 Arduino IDE
	27-04-2022	6.4 Case Studies
	28-04-2022	7.1 Architecture and Pin Configuration
9 <sup>th</sup>	02-05-2022	7.2 Case studies 7.3 Implementation of IoT with Raspberry Pi
	04-05-2022	<b>Class Test 2</b>
	05-05-2022	8.1 Limitation of current network 8.2 Origin of SDN
10 <sup>th</sup>	9-05-2022 to 14-05-2022	<b>Internal Assessment</b>
11 <sup>th</sup>	17-05-2022	8.3 SDN Architecture 8.4 Rule Placement, Open flow Protocol
	18-05-2022	8.5 Controller placement
	19-05-2022	8.6 Security in SDN 8.7 Integrating SDN in IoT
12 <sup>th</sup>	23-05-2022	9.1 Origin and example of Smart Home Technologies
	24-05-2022	9.2 Smart Home Implementation
	25-05-2022	9.3 Home Area Networks(HAN) 9.4 Smart Home benefits and issues
	26-05-2022	10.1 Characteristics of Smart Cities 10.2 Smart city Frameworks
13 <sup>th</sup>	31-05-2022	10.3 Challenges in Smart cities 10.4 Data Fusion
	01-06-2022	10.5 Smart Parking 10.6 Energy Management in Smart cities
	02-06-2022	11.1 IIoT requirements 11.2 Design considerations <b>Assignment Cum Revision</b>
14 <sup>th</sup>	06-06-2022	<b>Class Test 3</b>
	07-06-2022	11.3 Applications of IIoT
	08-06-2022	11.4 Benefits of IIoT 11.5 Challenges of IIoT
	09-06-2022	<b>Doubt Clearing Class</b>