

Discipline:	Semester:6	Name of the Teaching Faculty: Er. POONAM PANDA		
Subject:INTERNET OF THING	No. of Days/per week class allotted: 4	Semester From Date: 15 april 2021 To Date: 13 aug 2021 No.of Weeks:15		
Week	Class Day	Theory Topics	Remarks	Chapter
1st	1st (1)	What is IoT.Architectural Overview,		1. Introduction to IoT
	2nd (2)	Design principles and needed capabilities,		
	3rd (3)	IoT Applications, Sensing, Actuation,		
	4th (4)	Basics of Networking, M2M and IoT Technology		
2nd	1st (5)	Fundamentals- Devices and gateways,		
	2nd (6)	Data management, Business processes in IoT		
	3rd (7)	Everything as a Service(XaaS),		
	4th (8)	Role of Cloud in IoT, Security aspects in IoT.		
3rd	1st (9)	Hardware Components- Computing (Arduino,Raspberry Pi),		2.Elements of IoT
	2nd (10)	Communication, Sensing, Actuation		
	3rd (11)	I/O interfaces		
	4th (12)	Software Components- Programming API's		
4th	1st (13)	Software Components- Programming API's		
	2nd (14)	Protocols-MQTT,		
	3rd (15)	ZigBee, ,		
	4th (16)	Bluetooth,		
5th	1st (17)	CoAP		
	2nd (18)	UDP, TCP.		
	3rd (19)	Implementation of Device integration		
	4th (20)	Implementation of Device integration		
6th	1st (21)	Data acquisition and integration		3. IoT Application Development
	2nd (22)	Data acquisition and integration		
	3rd (23)	Data acquisition and integration		
	4th (24)	Device data storage-		
7th	1st (25)	Device data storage-		
	2nd (26)	Device data storage-		
	3rd (27)	Unstructured data storage on cloud/local server		
	4th (28)	Unstructured data storage on cloud/local server		
8th	1st (29)	Solution framework for IoT applications		
	2nd (30)	Solution framework for IoT applications		
	3rd (31)	Authentication, authorization of devices		
	3rd (32)	Authentication, authorization of devices		
9th	1st (33)	Understanding the IoT Big Picture		

	2nd (34)	Building the Internet of Things		4.Smart Technology
	3rd (35)	Building the Internet of Things		
	4th (36)	Understanding Smart Devices,Building Blocks		
10th	1st (37)	Understanding Smart Devices,Building Blocks		
	2nd (38)	Understanding Network Conections		
	3rd (39)	Understanding IP Adresses		
	4th (40)	Understanding IP Adresses		
11th	1st(41)	Understanding cellular Network & Mesh Network		
	2nd (42)	Understanding cellular Network & Mesh Network		
	3rd (43)	Understanding cellular Network & Mesh Network		
	4th (44)	What is Smart TV & its use		5. smart tv
12th	1st (45)	What is inside Smart TV		
	2nd (46)	What is inside Smart TV		
	3rd (47)	What a Smart TV does		
	4th (48)	What a Smart TV does		
13th	1st (49)	Smart TV Operating Systems		
	2nd (50)	Smart TV Operating Systems		
	3rd (51)	What is Smart TV Set-TopDevices		
	4th (52)	Intergrating Smart TV in to IOT		6.IOT case studies
14th	1st (53)	Intergrating Smart TV in to IOT		
	2nd (54)	smart home		
	3rd (55)	smart car		
	4th (56)	smart cities		
15th	1st (57)	smart drone		
	2nd (58)	industrial automation		
	3rd (59)	industrial automation		
	4th (60)	industrial automation		