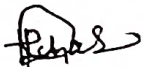| DISCIPLINE: ELECTRONICS AND TELECOMMUNICATION ENGG.	SEMESTER: 6	NAME OF THE TEACHING FACULTY: PRAKASH CHANDRA DAS	
SUBJECT: INTERNET OF THINGS	No. of Days/per week class allotted: 4	Semester From Date: 10TH March, 2022 To Date: 10th June, 2022 No.of Weeks:15	
Week	Class Day	Theory Topics	Chapter
1st	1st	What is IoT.Architectural Overview,	1. Introduction to IoT
	2nd	Design principles and needed capabilities,	
	3rd	IoT Applications, Sensing, Actuation,	
	4th	Basics of Networking, M2M and IoT Technology	
2nd	1st	Fundamentals- Devices and gateways,	
	2nd	Data management, Business processes in IoT	
	3rd	Everything as a Service(XaaS),	
	4th	Role of Cloud in IoT, Security aspects in IoT.	
3rd	1st	Hardware Components- Computing (Arduino,Raspberry Pi),	2.Elements of IoT
	2nd	Communication, Sensing, Actuation	
	3rd	I/O interfaces	
	4th	Software Components- Programming API's	
4th	1st	Software Components- Programming API's	
	2nd	Protocols-MQTT,	
	3rd	ZigBee, ,	
	4th	Bluetooth,	
5th	1st	CoAP	
	2nd	UDP, TCP.	
	3rd	Implementation of Device integration	3. IoT Application Development
	4th	Implementation of Device integration	
6th	1st	Data acquisition and integration	
	2nd	Data acquisition and integration	
	3rd	Data acquisition and integration	
	4th	Device data storage-	
7th	1st	Device data storage-	
	2nd	Device data storage-	
	3rd	Unstructured data storage on cloud/local server	
	4th	Unstructured data storage on cloud/local server	
8th	1st	Solution framework for IoT applications	
	2nd	Solution framework for IoT applications	
	3rd	Authentication, authorization of devices	
	3rd	Authentication, authorization of devices	

9th	1st	Understanding the IoT Big Picture	
	2nd	Building the Internet of Things	4.Smart Technology
	3rd	Building the Internet of Things	
	4th	Understanding Smart Devices,Building Blocks	
10th	1st	Understanding Smart Devices,Building Blocks	
	2nd	Understanding Network Conections	
	3rd	Understanding IP Adresses	
	4th	Understanding IP Adresses	
11th	1st	Understanding cellular Network & Mesh Network	
	2nd	Understanding cellular Network & Mesh Network	
	3rd	Understanding cellular Network & Mesh Network	
	4th	What is Smart TV & its use	
12th	1st	What is inside Smart TV	5. smarttv
	2nd	What is inside Smart TV	
	3rd	What a Smart TV does	
	4th	What a Smart TV does	
13th	1st	Smart TV Operating Systems	
	2nd	Smart TV Operating Systems	
	3rd	What is Smart TV Set-TopDevices	
	4th	Intergrating Smart TV in to IOT	
14th	1st	Intergrating Smart TV in to IOT	
	2nd	smart home	6.IOT case studies
	3rd	smart car	
	4th	smart cities	
15th	1st	smart drone	
	2nd	industrial automation	
	3rd	industrial automation	
	4th	industrial automation	

Signature of Faculty