Lesson Plan

Name of Faculty : Prachi, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : 8th (even)
Subject : Internet of things
Lesson Plan Duration : 15 weeks (from feb to july-2024)
Work Load (Lecture/Practical) per week (in hours): Lectures-03hours.

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1st	1	Introduction to IOT			
	2	History of IOT and			
	3	Overview and motivation with examples			
2nd	4	Framework of IOT			
	5	Architecture OF IOT			
	6	Observations and itu-i views			
3rd	7	Basic nodal capabilities			
	8	Basics of microcontroller			
	9	Difference of microcontroller and microprocessor			
4th	10	Sensors,actuators and their applications			
	11	Identification of IOT objects and services			
	12	Structural aspects of IOT			
5th	13	Environmental charactersitics			
	14	Traffic characteristics			
	15	Scalability, interoperability,security			
6th	16	Open architecture ,key IOT technologies			
	17	Device intelligence,communication capabilities			
	18	Mobility support			
7th		**1stsessional**			
8th	19	Principle of rfid			
	20	Satellite technology			
	21	IOT access technology			
9th	22	Physical and mac layers			
	23	Topology			
	24	Ieee 802.15.4			
10th	25	Ieee 802.15.4g			
	26	Low power and lossy networks			
	27	Supervisory control			
11th	28	Application layer protocol			
	29	COAP AND MQTT			
	30	Business models and innovations			
12th	31	Value creation in IOT			
	32	E-health body area networks			
	33	City automation			
13th	34	Automotive applications			
	35	Home automation			
	36	Smart cards			
14th		**2nd Sessional**			
15th	37	Advance metering applications			
	38	Smart shopping			
	39	Optimizing ip for IOT			