Lesson Plan

Discipline: Computer Science & Engg.	**Semester**: Fifth (5th)	**Name of the Faculty:** Er Aparajita Das
Subject: Mobile Computing	**No. of days/week class allotted:** Five(5)	**Semester from Date:** 15.09.22 to **Date**: 22.12.22 **No. of Weeks**: 15
WEEK	**CLASS DAY**	**THEORY TOPICS**
1st	1st	Introduction to Wireless networks & Mobile Computing Networks
	2nd	Wireless Networks
	3rd	Mobile Computing
	4th	Mobile Computing Characteristics
	5th	Application of Mobile Computing
2nd	1st	Review Class
	2nd	Introduction to Mobile Development Framework C/S architecture
	3rd	n-tier architecture
	4th	n-tier architecture and www
	5th	Peer-to Peer architecture
3rd	1st	Mobile agent architecture
	2nd	Review Class
	3rd	Introduction to Wireless Transmission
	4th	Signals
	5th	Period, Frequency and Bandwidth
4th	1st	Antennas, Signal Propagation
	2nd	Multiplexing
	3rd	Monthly Test
	4th	Modulation

	5th	Spread Spectrum
5th	1st	Cellular System
	2nd	Review Class
	3rd	Introduction to Medium Access Control
	4th	Hidden/ Exposed Terminals
	5th	The basic Access Method
6th	1st	Near / Far Terminals SDMA, FDMA, TDMA, CDMA
	2nd	Review Class
	3rd	Introduction to Wireless LAN and communication
	4th	Infrared
	5th	Radio Frequency
7th	1st	IR Advantages and Disadvantages
	2nd	RF Advantages and Disadvantages
	3rd	Wireless Network Architecture Logical
	4th	Monthly Test
	5th	Types of WLAN
8th	1st	IEEE 802.11
	2nd	MAC layer. Security
	3rd	Synchronization, Power Management
	4th	Roaming, Bluetooth Overview
	5th	Review Class
9th	1st	Introduction to Ubiquitous Wireless Communication
	2nd	Scenario of Mobile Communication, Mobile Communication Generations 1G to 3G
	3rd	3rd Generation Mobile Communication Network
	4th	Universal Mobile telecommunication System

		(UMTS)
	5th	Review Class
10th	1st	Overview of Mobile IP
	2nd	Working with mobile IP
	3rd	Working with mobile IP, Mobility Agents
	4th	Components of Mobile IP
	5th	Monthly Test
11th	1st	Mobile IPv6 Features
	2nd	Mobile Ipv6 Address Types
	3rd	Mobile Ipv6 Address Scope
	4th	Mobile IP Operation
	5th	Review Class
12th	1st	WWW architecture for Mobile computing
	2nd	Need of WAP, Benefits of WAP
	3rd	Examples of WAP
	4th	WAP- Architecture
	5th	WAP protocols, WML
13th	1st	WAP Push architecture
	2nd	Push-Pull based data acquisition
	3rd	I-mode, WAP 2.x
	4th	Review Class
	5th	GSM of Wireless Telecomm Networks
14th	1st	GPRS
	2nd	IS-95, CDMA-2000
	3rd	W-CDMA
	4th	Monthly Test

	5th	Wireless Sensor Networks
15th	1st	Review Class
	2nd	Short Message Services (SMS) of Messaging Services
	3rd	Multimedia Message Services (MMS)
	4th	Multimedia transmission over wireless
	5th	Review Class