

ACADEMIC LESSON PLAN 2021 (WINTER)

Discipline: Information Technology	Semester : 5th	Name of the Teaching faculty:Archana Tripathy	
Subject : Mobile Computing	No.of Days/per week class allotted : 04	Semester from date : 1/10/2021 to 8/1/2022	
Month & Week	Class Day	Theory / Practical Topics to be covered:	Remark
1 st Week	1 st	Introduction to Wireless networks & Mobile Computing, Networks,Wireless Networks	
2 nd Week	1 st	Introduction to Mobile Development Framework ,C/S architecture	
	2 nd	n-tier architecture,n-tier architecture and www	
	3 rd	Peer-to Peer architecture,Wireless Transmission,,Introduction	
	4 th	REVISION OF Ch-1 &2	
3 rd Week	1 st	PUJA VACATION	
	2 nd		
	3 rd		
	4 th		
4 th Week	1 st	Antennas	
	2 nd	Signal Propagation	
	3 rd	Multiplexing	
	4 th	Types of multiplexing	
5 th Week	1 st	Modulation	
	2 nd	Types of modulation techniques	
	3 rd	continuation of types of modulation techniques	
	4 th	Spread Spectrum ,Cellular System	
6 th Week	1 st	REVISION OF Ch-3	
	2 nd	Medium Access Control , Introduction , Hidden/ Exposed Terminals	
	3 rd	The basic Access Method, Near / Far Terminals	
	4 th	SDMA, FDMA,	
7 th Week	1 st	TDMA, CDMA	
	2 nd	Wireless LANs ,Wireless LAN and communication	
	3 rd	IR Advantages and Disadvantages	
8 th Week	1 st	RF Advantages and Disadvantages	
		Wireless Network Architecture Logical	
	2 nd	Types of WLAN	
	3 rd	IEEE 802.11	
9 th Week	4 th	IEEE 802.11 architecture	
	1 st	Other standards MAC layer	
	2 nd	Security,Synchronization , Power Management	
	3 rd	Roaming ,Bluetooth Overview	
10 th Week		REVISION OF Ch-4,5	
	4 th	Ubiquitous Wireless Communication, Introduction Scenario of Mobile Communication	
	1 st	Mobile Communication Generations 1G to 3G	
		3rd Generation Mobile Communication Network	
11 th Week	2 nd	Universal Mobile telecommunication System (UMTS)	
		Mobile IP ,Overview , Working with mobile IP ,Mobile IP Entities	
	3 rd	Comparison of IPV4 and IPV6	
	4 th	Mobility Agents ,Components of Mobile IP	
12 th Week	1 st	Mobile IPv6 Features	
	2 nd	Mobile IPv6 Address Types ,Mobile IPv6 Address Scope	
	3 rd	Mobile IP Operation	
	4 th	REVISION OF Ch-6,7	
13 th Week	4 th	Mobile Computing ,WWW architecture for Mobile computing	
	1 st	Need of WAP ,Benefits of WAP , Examples of WAP	
	2 nd	WAP- Architecture	
	3 rd	WAP protocols	
14 th Week	4 th	WML , WAP Push architecture	
		Push-Pull based data acquisition , I-mode,WAP 2.x	

13 th Week	1 st	REVISION OF Ch-8 Wireless Telecomm Networks, GSM	
	2 nd	GSM	
		GPRS	
	3 rd	GPRS	
4 th	IS-95		
14 th Week	1 st	GPRS	
	2 nd	CDMA-2000	
	3 rd	W-CDMA ,Wireless Sensor Networks	
		Messaging Services,Short Message Services (SMS)	
4 th	Multimedia Message Services (MMS)		
15 th Week	1 st	Multimedia transmission over wireless	
	2 nd	REVISION OF Ch-9,10	
	3 rd	REVISION of all topics with Semester Question	
	4 th	REVISION of all topics with Semester Question	

Signature of Faculty