

ACADEMIC LESSON PLAN 2022 (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 : 15/09/2022 to 22/12/2022	
Month & Week	Class Day	Theory / Practical Topics to be covered:	Remark
1 <sup>st</sup> Week 15th Sept- 17th Sept	1 <sup>st</sup>	Introduction to Wireless networks & Mobile Computing, Networks, Wireless Networks	
	2 <sup>nd</sup>	Mobile Computing, Mobile Computing Characteristics, Application of Mobile Computing	
2 <sup>nd</sup> Week 19th Sept - 24th Sept	1 <sup>st</sup>	Introduction to Mobile Development Framework , C/S architecture	
	2 <sup>nd</sup>	n-tier architecture, n-tier architecture and www	
	3 <sup>rd</sup>	Peer-to Peer architecture, Wireless Transmission,, Introduction	
	4 <sup>th</sup>	REVISION OF Ch-1 & 2	
3 <sup>rd</sup> Week 26th Sept-1st Oct	1 <sup>st</sup>	Antennas	
	2 <sup>nd</sup>	Signal Propagation	
	3 <sup>rd</sup>	Multiplexing	
	4 <sup>th</sup>	Types of multiplexing	
4 <sup>th</sup> Week 03rd Oct -8th Oct	1 <sup>st</sup>	Puja Vacation	
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		
5 <sup>th</sup> Week 10th Oct- 15th Oct	1 <sup>st</sup>	Modulation	
	2 <sup>nd</sup>	Types of modulation techniques	
	3 <sup>rd</sup>	continuation of types of modulation techniques	
	4 <sup>th</sup>	Spread Spectrum , Cellular System	
6 <sup>th</sup> Week 17th Oct- 22nd Oct	1 <sup>st</sup>	REVISION OF Ch-3	
	2 <sup>nd</sup>	Medium Access Control , Introduction , Hidden/ Exposed Terminals	
	3 <sup>rd</sup>	The basic Access Method, Near / Far Terminals	
	4 <sup>th</sup>	SDMA, FDMA,	
7 <sup>th</sup> Week 22th Oct-29th Oct	1 <sup>st</sup>	TDMA, CDMA	
	2 <sup>nd</sup>	Wireless LANs , Wireless LAN and communication	
	3 <sup>rd</sup>	IR Advantages and Disadvantages	
8 <sup>th</sup> Week 31st Oct - 5th Nov	1 <sup>st</sup>	RF Advantages and Disadvantages Wireless Network Architecture Logical	
	2 <sup>nd</sup>	Types of WLAN	
	3 <sup>rd</sup>	IEEE 802.11	
	4 <sup>th</sup>	IEEE 802.11 architecture	
9 <sup>th</sup> Week 7th Nov -12th Nov	1 <sup>st</sup>	Other standards MAC layer	
	2 <sup>nd</sup>	Security, Synchronization , Power Management	
	3 <sup>rd</sup>	Roaming , Bluetooth Overview REVISION OF Ch-4,5	
	4 <sup>th</sup>	Ubiquitous Wireless Communication, Introduction Scenario of Mobile Communication	
10 <sup>th</sup> Week 14th Nov -19th Nov	1 <sup>st</sup>	Mobile Communication Generations 1G to 3G 3rd Generation Mobile Communication Network	
	2 <sup>nd</sup>	Universal Mobile telecommunication System (UMTS) Mobile IP , Overview , Working with mobile IP , Mobile IP Entities	
	3 <sup>rd</sup>	Comparison of IPV4 and IPV6	
	4 <sup>th</sup>	Mobility Agents , Components of Mobile IP	
11 <sup>th</sup> Week 21st Nov - 26th Nov	1 <sup>st</sup>	Mobile IPv6 Features	
	2 <sup>nd</sup>	Mobile IPv6 Address Types , Mobile IPv6 Address Scope	
	3 <sup>rd</sup>	Mobile IP Operation REVISION OF Ch-6,7	
	4 <sup>th</sup>	Mobile Computing , WWW architecture for Mobile computing	
12 <sup>th</sup> Week 28th Nov -3rd Dec	1 <sup>st</sup>	Need of WAP , Benefits of WAP , Examples of WAP	
	2 <sup>nd</sup>	WAP- Architecture	
	3 <sup>rd</sup>	WAP protocols	
	4 <sup>th</sup>	WML , WAP Push architecture	
13 <sup>th</sup> Week 5th Dec -10th Dec	1 <sup>st</sup>	Push-Pull based data acquisition , I-mode, WAP 2.x REVISION OF Ch-8 Wireless Telecomm Networks, GSM	
	2 <sup>nd</sup>	GSM	
	3 <sup>rd</sup>	GPRS	
	4 <sup>th</sup>	GPRS	
14 <sup>th</sup> Week 12th Dec -17th Dec	1 <sup>st</sup>	IS-95	
	2 <sup>nd</sup>	GPRS	
		CDMA-2000	

14 <sup>th</sup> Week 12 <sup>th</sup> Dec-13 <sup>th</sup> Dec	3 <sup>rd</sup>	W-CDMA ,Wireless Sensor Networks Messaging Services,Short Message Services (SMS)	
	4 <sup>th</sup>	Multimedia Message Services (MMS)	
15 <sup>th</sup> Week 19 <sup>th</sup> Dec-22 <sup>nd</sup> Dec	1 <sup>st</sup>	Multimedia transmission over wireless	
	2 <sup>nd</sup>	REVISION OF Ch-9,10	
	3 <sup>rd</sup>	REVISION of all topics with Semister Question	
	4 <sup>th</sup>	REVISION of all topics with Semister Question	

*[Handwritten Signature]*  
 Signature of Faculty  
 15-9-22