

**ACADEMIC LESSON PLAN 2023 (WINTER)**

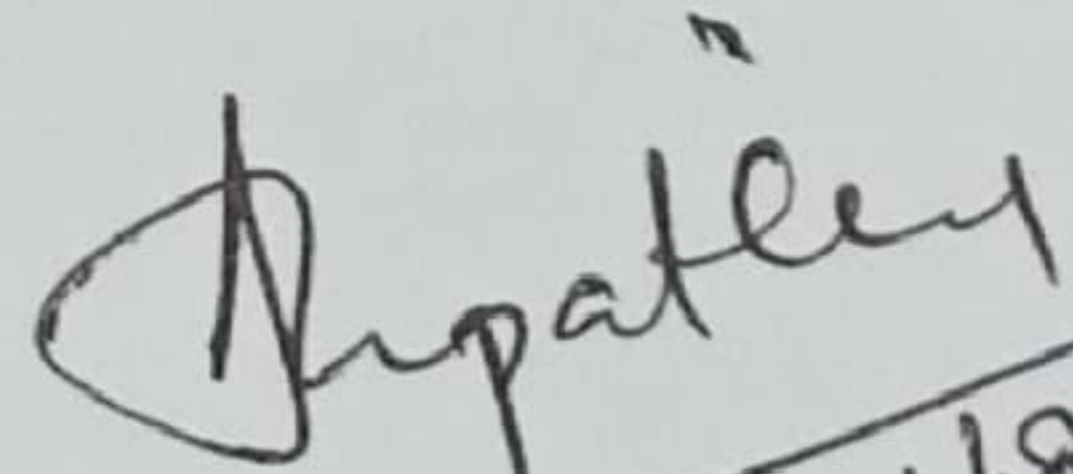
<b>Discipline: Information Technology</b>	<b>Semester : 5th</b>	<b>Name of the Teaching faculty: Archana Tripathy</b>
<b>Subject : Mobile Computing</b>	<b>No.of Days/per week class allotted : 04</b>	<b>Semester from date : 01/08/2023 to 30/11/2023 No. of weeks : 17</b>
<b>Week</b>	<b>Class Day</b>	<b>Theory / Practical Topics</b>
1 <sup>st</sup> Week (1 <sup>st</sup> Aug- 5 <sup>th</sup> Aug)	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
	3 <sup>rd</sup>	Introduction to Mobile Development Framework ,C/S architecture
	4 <sup>th</sup>	n-tier architecture,n-tier architecture and www
2 <sup>nd</sup> Week (6 <sup>th</sup> Aug- 12 <sup>th</sup> Aug )	1 <sup>st</sup>	Peer-to Peer architecture,Wireless Transmission
	2 <sup>nd</sup>	Mobile agent architecture
	3 <sup>rd</sup>	<b>Question Answer Discussion Ch-1 &amp;2</b>
	4 <sup>th</sup>	Wirless transmission,Introduction,Signals,Perod,frequency & bandwidth
3 <sup>rd</sup> Week (14 <sup>th</sup> Aug- 19 <sup>th</sup> Aug )	1 <sup>st</sup>	Antennas
	2 <sup>nd</sup>	Signal Propagation
	3 <sup>rd</sup>	Multiplexing
	4 <sup>th</sup>	Types of mulitplexing
4 <sup>th</sup> Week (21 <sup>st</sup> Aug- 26 <sup>th</sup> Aug)	1 <sup>st</sup>	Modulation
	2 <sup>nd</sup>	Modulation
	3 <sup>rd</sup>	Modulation
	4 <sup>th</sup>	Typres od modilation techniques
5 <sup>th</sup> Week (28 <sup>th</sup> Aug- 2 <sup>nd</sup> Sept)	1 <sup>st</sup>	continuation of typres of modilation techniques
	2 <sup>nd</sup>	Spread Spectrum ,Cellular System
	3 <sup>rd</sup>	<b>Question Answer Discussion Ch-3</b>
	4 <sup>th</sup>	Medium Access Control , Introduction , Hidden/ Exposed Terminals
6 <sup>th</sup> Week (4 <sup>th</sup> Sept - 9 <sup>th</sup> Sept)	1 <sup>st</sup>	The basic Access Method, Near / Far Terminals
	2 <sup>nd</sup>	SDMA, FDMA,
	3 <sup>rd</sup>	TDMA, CDMA



	4 <sup>th</sup>	<b>Question Answer Discussion Ch-4</b>
7 <sup>th</sup> Week 11 <sup>th</sup> Sept - 16 <sup>th</sup> Sept	1 <sup>st</sup>	Wireless LANs, Wireless LAN & communication
	2 <sup>nd</sup>	Infrared & Its Advantages and disadvantages
	3 <sup>rd</sup>	Radio frequency & Its Advantages and disadvantages
	4 <sup>th</sup>	Wireless Network Architecture Logical
8 <sup>th</sup> Week 18 <sup>th</sup> Sept - 23 <sup>rd</sup> Sept	1 <sup>st</sup>	Types of WLAN
	2 <sup>nd</sup>	IEEE 802.11
	3 <sup>rd</sup>	IEEE 802.11 architecture
	4 <sup>th</sup>	Other standards & MAC layer
9 <sup>th</sup> Week 25 <sup>th</sup> Sept - 30 <sup>th</sup> Sept	1 <sup>st</sup>	Security, Synchronization , Power Management
	2 <sup>nd</sup>	Roaming , Bluetooth Overview
	3 <sup>rd</sup>	<b>Question Answer Discussion Ch-5</b>
	4 <sup>th</sup>	Ubiquitous Wireless Communication, Introduction Scenario of Mobile Communication
10 <sup>th</sup> Week 2 <sup>nd</sup> Oct -7 <sup>th</sup> Oct	1 <sup>st</sup>	Mobile Communication Generations 1G to 3G
	2 <sup>nd</sup>	3rd Generation Mobile Communication Network
	3 <sup>rd</sup>	Universal Mobile telecommunication System (UMTS)
	4 <sup>th</sup>	<b>Question Answer Discussion Ch-6</b>
11 <sup>th</sup> Week 9 <sup>th</sup> Oct -14 <sup>th</sup> Oct	1 <sup>st</sup>	Mobile IP , Overview , Working with mobile IP , Mobile IP Entities
	2 <sup>nd</sup>	Comparison of IPV4 and IPV6
	3 <sup>rd</sup>	Mobility Agents , Components of Mobile IP
	4 <sup>th</sup>	Mobile IPv6 Features
12 <sup>th</sup> Week 16 <sup>th</sup> Oct- 20 <sup>th</sup> Oct	1 <sup>st</sup>	Mobile IPv6 Address Types , Mobile IPv6 Address Scope
	2 <sup>nd</sup>	Mobile IP Operation
	3 <sup>rd</sup>	<b>Question Answer Discussion Ch-7</b>
	4 <sup>th</sup>	Mobile Computing , WWW architecture for Mobile computing
13 <sup>th</sup> Week 30 <sup>th</sup> Oct - 4 <sup>th</sup> Nov	1 <sup>st</sup>	Need of WAP , Benefits of WAP , Examples of WAP
	2 <sup>nd</sup>	WAP- Architecture , WAP protocols
	3 <sup>rd</sup>	WAP protocols , WML , WAP Push architecture



	4 <sup>th</sup>	Push-Pull based data acquisition , I-mode,WAP 2.x
14 <sup>th</sup> Week 6 <sup>th</sup> Nov-11 <sup>th</sup> Nov	1 <sup>st</sup>	<b>Question Answer Discussion Ch-8</b>
	2 <sup>nd</sup>	Wireless Telecomm Networks, GSM
	3 <sup>rd</sup>	GSM
	4 <sup>th</sup>	GPRS
15 <sup>th</sup> Week 13 <sup>th</sup> Nov-18 <sup>th</sup> Nov	1 <sup>st</sup>	GPRS
	2 <sup>nd</sup>	CDMA-2000
	3 <sup>rd</sup>	CDMA-2000
	4 <sup>th</sup>	W-CDMA ,Wireless Sensor Networks <b>Question Answer Discussion Ch-9</b>
16 <sup>th</sup> week 20 <sup>th</sup> Nov - 25 <sup>th</sup> Nov	1 <sup>st</sup>	Messaging Services,Short Message Services (SMS)
	2 <sup>nd</sup>	Multimedia Message Services (MMS)
	3 <sup>rd</sup>	Multimedia transmission over wireless
	4 <sup>th</sup>	<b>Question Answer Discussion Ch-10</b>
		REVISION of Ch 1&2 with Semister Question
		REVISION of Ch-3 &4 with Semister Question
		REVISION of Ch-5 & 6 with Semister Question
17 <sup>th</sup> Week 27 <sup>th</sup> Nov-30 <sup>th</sup> Nov	1 <sup>st</sup>	REVISION of Ch-7 & 8 with Semister Question
	2 <sup>nd</sup>	REVISION of Ch-9 & 10 with Semister Question

  
 Signature of the faculty  
 18.23