

Discipline: CSE	Semester: 5th	Name of the Teaching Faculty: Suryaj Bijehal	
Subject: mobile computing	No of Days/Week Class Allotted: 4	Semester From date: _____ to _____ date _____	No. of Weeks: 15
WEEK	Class Day	Theory Topics	
1st week 15-09-22 to 17-09-22	1st	Introduction to Wireless networks & mobile computing.	
	2nd	Network, Types of Network	
	3rd	wireless Network, mobile computing characteristics	
	4th	mobile computing characteristics	
	5th		
2nd week 19-09-22 to 24-09-22	1st	Application of mobile computing	
	2nd	Advantages & Dis-Advantages of mobile computing	
	3rd	Introduction to mobile Development framework.	
	4th	C/S architecture.	
	5th		
3rd week 26-09-22 to 01-10-22	1st	N-tire architecture.	
	2nd	N-tire architecture & www	
	3rd	Peer-to Peer architecture.	
	4th	mobile agent architecture.	
	5th		

WEEK	Class Day	Theory Topics
4th 10.10.22 to 14.10.22	1st	Introduction to wireless Transmission.
	2nd	what is signal, period, frequency, Bandwidth
	3rd	A-Antennas
	4th	Signal propagation.
		Propagation
5th 15.10.22 to 18.10.22	1st	Multiplexing, Modulation
	2nd	Spread Spectrum, Cellular system.
	3rd	Introduction to Medium Access control
	4th	Hidden / Exposed Terminals
	5th	
6th 19.10.22 to 22.10.22	1st	The Basic Access Method.
	2nd	Near / Far terminals
	3rd	SDMA, FDMA
	4th	TDMA, CDMA
	5th	

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WEEK	Class Day	Theory Topics
7th 24-10-22 to 29-10-22	1st	Introduction to wireless LANs.
	2nd	communication through wireless LAN
	3rd	Infrared, Radio frequency
	4th	IR Advantages & Disadvantages, RF Advantages & Disadvantages.
	5th	
8th 31-10-22 to 05-11-22	1st	wireless Network Architecture logical, Types of WLAN, IEEE 802.11, MAC layer
	2nd	Security, Synchronization, power management, Roaming, Bluetooth
	3rd	Introduction to Ubiquitous wireless Communication
	4th	Scenario of mobile communication
	5th	
9th 7-11-22 to 12-11-22	1st	mobile Communication Generations 1G to 3G
	2nd	3rd generation mobile communication Network
	3rd	universal mobile tele communication system.
	4th	Advantages & Dis Advantages of UMTS
	5th	

WEEK	Class Day	Theory Topics
10th 14-11-22 to 19-11-22	1st	Introduction to mobile IP
	2nd	Working with mobile IP, mobile IP Entities.
	3rd	Mobility Agents, Components of mobile IP
	4th	Mobile IPv6 Features.
	5th	
11th 21-11-22 to 26-11-22	1st	Mobile IPv6 Address Types, IPv6 Address Scope
	2nd	Mobile IP Operation
	3rd	WWW architecture for mobile computing
	4th	Need of WAP, Benefits of WAP, Examples of WAP.
	5th	
12th 28-11-22 to 03-12-22	1st	WAP - Architecture.
	2nd	WAP protocols, WML
	3rd	WAP push architecture, Push-pull based data acquisition.
	4th	I-mode, WAP 2.X.
	5th	

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WEEK	Class Day	Theory Topics
13th 05-12-22 to 10-12-22	1st	Introduction to wireless telecomm Networks
	2nd	Global System for mobile communication
	3rd	General Packet Radio Service
	4th	Interim standard-95
	5th	
14th 12-12-22 to 17-12-22	1st	CDMA-2000, W-CDMA
	2nd	wireless sensor Networks
	3rd	Introduction to Messaging Services.
	4th	Short Message Services (SMS)
	5th	
15th 19-12-22 to 24-12-22	1st	How does SMS work?
	2nd	Multimedia Message Service (MMS)
	3rd	How does MMS work?
	4th	Multimedia transmission over wireless.
	5th	