

Academic Lesson Plan of Winter 2024		
Department: CSE	Semester:5th	Name of the Teaching Faculty: NALINIKANTA MOHAPATRA
Subject: MC	No. of days/per week class allotted 4p/week	Semester from:01/07/2024
		No. of weeks:15
		Topics to be covered:
WEEK	DAY	TOPIC
week1	1st	Introduction to wireless Networks and Mobile Computing ,Networks
	2nd	Wireless network , Mobile computing
	3rd	mobile computing characteristics
	4th	Application of mobile computing
WEEK2	1st	Introduction to mobile development frame work
	2nd	C/S architecture
	3rd	n-tire architecture and WWW
	4th	Peer- to peer architecture
WEEK3	1st	Mobile agent architecture
	2nd	introduction to wireless transmission
	3rd	Signal,period,frequency &bandwidth
	4th	Antennas signal propagation
week4	1st	Multiplexing & modulation
	2nd	Spread spectrum, cellular system
	3rd	Medium access control
	4th	Introducton,Hidden/expose terminal
week5	1st	The Basic access method
	2nd	Near/far terminal
	3rd	SDMA,FDMA,TDMA,CDMA
	4th	Wireless LANS & communication
week6	1st	Infrared radio frequency
	2nd	IR Advantages and disadvantages
	3rd	RF Advantages and disadvantages
	4th	Wireless network architecture logical
week7	1st	Types of WLAN
	2nd	IEEE. 802.11
	3rd	MAC layers
	4th	security
week8	1st	Synchronization
	2nd	Power management
	3rd	Roaming
	4th	Bluetooth overview
week9	1st	Introduction,obiquitous wireless communication
	2nd	scenario of mobile communication
	3rd	Mobile communication generation 1G & 3G
	4th	3rd generation mobile communication network
week10	1st	Universal mobile telecommunication system(UMTS)
	2nd	Mobile IP overview, working with mobile IP
	3rd	Mobile IP entities, mobile IP agents
	4th	Components of mobile IP
week11	1st	Mobile IPV6 features
	2nd	Mobile IPV6 address types and address scope
	3rd	Mobile IP operation
	4th	WWW architecture for mobile computing

week12	1st	Need of WAP, benefits of WAP, Example of WAP
	2nd	WAP architecture , WAP protocols
	3rd	WML
	4th	WAP push architecture
week13	1st	Push -pull based data acquisition
	2nd	I-mode
	3rd	WAP 2.X
	4th	Wireless telecom networks
week14	1st	GSM, GPRS
	2nd	IS-95
	3rd	CDMA-2000,W-CDMA
	4th	Wireless sensor-networks
Week15	1st	messaging services, short message services(SMS)
	2nd	Multimedia message services(MMS)
	3rd	Multimedia transmission over wireless
	4th	Revision on previous year questions and doubt clearing

Shim
30.6.24

Signature of Faculty

Shim
30/6/24
HOD

Sr. Lecture, CSE