PNS SCHOOL OF ENGINEERING & TECHNOLOGY, NISHAMANI VIHAR, MARSHAGHAI, KENDRAPARA

LESSION PLAN

BRANCH : COMPUTER SCIENCE & ENGG.	SEMESTER : 5TH	NAME OF THE TEACHING FACULTY : ER. JAYASHREE BISHOI
SUBJECT : MOBILE COMPUTING	NO. OF DAYS PER WEEK : 5 CLASS ALLOTTED : 71	SEMESTER FROM DATE : 01-08-2023 TO 30-11-2023 NO. OF WEEKS : 14

WEEK	DATE	THEORY/PRACTICL TOPICS
1st Week	1st	Network & its type- LAN, WAN, MAN, PAN etc.
	2nd	What is mobile computing ? Brief discussion on communication system.
	3rd	Characteristics of Mobile Computing.
	4th	Appication of Mobile Computing
	5th	What is signal and its characterestics ?
2nd Week	1st	Application of Mobile Computing
	2nd	Revision of Chapter-1 or Class Test
	3rd	Introduction to mobile development frame work topic- 2 start.
	4th	Client Server Architectures,N-Tier Architectures,The Word Wide Web.
	5th	N-Tier Architectures and the WWW
3rd Week	1st	Peer to Peer Architectures.Mobile Agent Architectures.
	2nd	Introduction, Signal-Time Period, Frequency, Band Width, Wave Length.
	3rd	Antennas and its type, Transducers.
	4th	Signal Propagation through different medium.
	5th	Multiplexing and its type- SDM, FDM, TDM, CDM.
4th Week	1st	Space Divison Multiplexing - SDM
	2nd	Frequency Division Multiplexing- FDM
	3rd	Time Division Multiplexing - TDM
	4th	What is modulatin ? Need for Modulatin, Career Wave,
	5th	Types of Modulation- Analog Modulation and Digital Modulation.
5th Week	1st	Digital Modulatin- ASK, FSK, PSK Spread Spctrum Communicatin. DSSS and FHSS
	2nd	Cellular System, Cells its different types, Clusters, Frequency Reuse, Cell Splitting.
	3rd	Hand off, Cellular Radio.
	4th	Introduction - Hiden / Exposed Terminals Career Sence Multiple Access with Collision Dection (CSMA/CD)
	5th	Basic Access Method - Problem in Wareless Networks.
	1st	CSMA / CD Protocol Works.,Near / Far Terminals.

6th Week	2nd	Frequency Division Multiple Access (FDMA)
	3rd	Time Division Multiple Access - TDMA Code Division Multiple Access-
	4th	Wireless LANS & Communication Infrared.
	5th	Radio Frequency, IR Advangages, IR Disadvantages, RF Advantages, RF
7th Week	1st	Wireless Network Architecture
	2nd	Types of WLAN,IEEE 802.11 and its architecture,MAC LAYER - Security.
	3rd	Synchronization - Timer Synchronization IBSS, Timer Synchronizatin in an infrastructure BSS
	4th	Power Management - Power Management in an independent VSS, In an infrastructure BSS.
	5th	Roaming, Bluetooth
8th Week	1st	Bluetooth Communication Types- Diponent and Scatternet.
	2nd	Introduction - Scenario of Mobile Communication.
	3rd	Mobile Communication Generation- 1G to 3G.
	4th	3G Mobile Communication Network.
	5th	Universal Mobile Telecommunication System (UMTS)
9th Week	1st	UMTS Services,UMTS Architecture,UMTS User Equipments.
	2nd	Overview, Working of Mobile IP
	3rd	Mobile IP Entities- Mobile Node, Home Agent, Foreign
	4th	Components of Mobile IP, Mobile IP V6 Features.
	5th	Mobile IP V6 Address Type.
10th Week	1st	Mobile IP V6 Address Scope, Mobile IP Operation.
	2nd	Discovering Care of address, Registration of Care of
	3rd	World Wide Web - WWB - Architecture of Mobile
	4th	Wireless Application Protocol (WAP), Mid of WAP.
	5th	Benefits of WAP, Examples of WAP.
11th Week	1st	WAP Architecture.
	2nd	WAP Protocol, WAP Transport Layer Wireless Datagram
	3rd	I Mode, Wireless Markup Language (WML), WML Script
	4th	I Mode, WAP - 2X,GPRS- Archietecher
	5th	IS - 95, CDMA - 2000
12th Week	1st	WCDM, Wireless Senssor Networks
	2nd	Short Message Service (SMS)
	3rd	Multimedia Message Service (MMS)
	4th	Multimedia Transmission Over Wireless.
	5th	Revision, Class Test, Doubt Clearing.

Jayashree Bishoi

SIGNATURE OF LECTURER

Biswaranjan Swain

SIGNATURE OF HOD