

PNS SCHOOL OF ENGG. & TECH., MARSHAGHAI

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING LESSON PLAN

BRANCH : CSE	SEMESTER : 5TH	NAME OF THE TEACHING FACULTY : MR. BISWARANJAN SWAIN
SUBJECT : MOBILE COMPUTING (TH-5)	NO. OF DAYS PER WEEK CLASS ALLOTTED : 04	SEMESTER FROM DATE: 07.07.2025 TO 30.11.2025
WEEK	CLASS DAY	THEORY TOPICS
1ST	1st	1. Introduction to Wireless networks & Mobile Computing 1.1 Networks
	2nd	Types of Network
	3rd	1.2 Wireless Networks
	4th	1.3 Mobile Computing
2ND	1st	1.4 Mobile Computing Characteristics
	2nd	1.5 Application of Mobile Computing
	3rd	2. Introduction to Mobile Development Framework 2.1 C/S architecture
	4th	2.2 n-tier architecture
3RD	1st	2.3 n-tier architecture and www
	2nd	2.4 Peer-to Peer architecture
	3rd	2.5 Mobile agent architecture
	4th	2.5 Mobile agent architecture
4TH	1st	3. Wireless Transmission 3.1 Introduction 3.2 Signals
	2nd	3.3 Period, Frequency and Bandwidth.
	3rd	3.4 Antennas 3.5 Signal Propagation
	4th	3.6 Multiplexing 3.7 Modulation
5th	1st	3.8 Spread Spectrum
	2nd	3.9 Cellular System
	3rd	4. Medium Access Control 4.1 Introduction
	4th	4.2 Hidden/ Exposed Terminals

6 th	1 st	4.3 The basic Access Method
	2 nd	4.4 Near / Far Terminals
	3 rd	4.5 SDMA, FDMA
	4 th	TDMA, CDMA
7 th	1 st	5. Wireless LANs 5.1 Wireless LAN and communication 5.2 Infrared IR Advantages and Disadvantages
	2 nd	5.3 Radio Frequency
	3 rd	RF Advantages and Disadvantages
	4 th	5.6 Wireless Network Architecture Logical 5.7 Types of WLAN 5.8 IEEE 802.11
8 th	1 st	5.9 MAC layer 5.10 Security 5.11 Synchronization
	2 nd	5.12 Power Management 5.13 Roaming 5.14 Bluetooth Overview
	3 rd	6. Ubiquitous Wireless Communication 6.1 Introduction
	4 th	6.2 Scenario of Mobile Communication
9 th	1 st	6.3 Mobile Communication Generations 1G to 3G
	2 nd	6.4 3rd Generation Mobile Communication Network
	3 rd	6.5 Universal Mobile telecommunication System (UMTS)
	4 th	6.5 Universal Mobile telecommunication System (UMTS)
10 th	1 st	7. Mobile IP 7.1 Overview 7.2 Working with mobile IP
	2 nd	7.3 Mobile IP Entities 7.4 Mobility Agents
	3 rd	7.5 Components of Mobile IP
	4 th	7.6 Mobile IPv6 Features
11 th	1 st	7.7 Mobile IPv6 Address Types 7.8 Mobile IPv6 Address Scope
	2 nd	7.9 Mobile IP Operation
	3 rd	8. Mobile Computing 8.1 WWW architecture for Mobile computing 8.2 Need of WAP

	4 th	8.3 Benefits of WAP 8.4 Examples of WAP
12 th	1 st	8.5 WAP- Architecture 8.6 WAP protocols
	2 nd	8.7 WML 8.8 WAP Push architecture
	3 rd	8.9 Push-Pull based data acquisition 8.10 I-mode
	4 th	8.11 WAP 2.x
13 th	1 st	9. Wireless Telecomm Networks 9.1 GSM
	2 nd	9.2 GPRS
	3 rd	9.3 IS-95
	4 th	9.4 CDMA-2000
14 th	1 st	9.5 W-CDMA
	2 nd	9.6 Wireless Sensor Networks
	3 rd	10. Messaging Services 10.1 Short Message Services (SMS)
	4 th	10.1 Short Message Services (SMS)
15 th	1 st	10.2 Multimedia Message Services (MMS)
	2 nd	10.2 Multimedia Message Services (MMS)
	3 rd	10.3 Multimedia transmission over wireless
	4 th	10.3 Multimedia transmission over wireless

Biswaraj Swain

SIGNATURE OF H.O.D

Biswaraj Swain

SIGNATURE OF LECTURER