

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
1 ST	1 st	1. Introduction to Wireless networks & Mobile Computing 1.1 Networks
	2 nd	Types of Network
	3 rd	1.2 Wireless Networks
	4 th	1.3 Mobile Computing
2 ND	1 st	1.4 Mobile Computing Characteristics
	2 nd	1.5 Application of Mobile Computing
	3 rd	2. Introduction to Mobile Development Framework 2.1 C/S architecture
	4 th	2.2 n-tier architecture
3 RD	1 st	2.3 n-tier architecture and www
	2 nd	2.4 Peer-to Peer architecture
	3 rd	2.5 Mobile agent architecture
	4 th	2.5 Mobile agent architecture
4 TH	1 st	3. Wireless Transmission 3.1 Introduction 3.2 Signals
	2 nd	3.3 Period, Frequency and Bandwidth.
	3 rd	3.4 Antennas 3.5 Signal Propagation
	4 th	3.6 Multiplexing 3.7 Modulation
5 TH	1 st	3.8 Spread Spectrum
	2 nd	3.9 Cellular System
	3 rd	4. Medium Access Control 4.1 Introduction
	4 th	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

Biswarajan Srivin

SIGNATURE OF H.O.D

Biswarajan Srivin

SIGNATURE OF LECTURER