LESSON PLAN

SUB: MOBILE COMPUTING
BRANCH:- COMPUTER SCIENCE& ENGG.
SEMESTER:5th
NAME OF FACULTY: MAHESWARI SAMAL (GF in CSE)

GOVERNMENT POLYTECHNIC, BHADRAK

SESSION-2025-26

Hod ,CSE

Academic Co-ordinator

Academic Co-ordinator

Principal
Govt. Polytechnic, Bhadrak

Discipline: Computer Science & Engineering	Semester:5th, Winter-2025	Name of theTeaching Faculty: Maheswari Samal, Lecturer CSE (GF)
Subject: Mobile Computing, Theory- 05	No. Of Days/Week:04	StartDate:14.07.2025 EndDate:15.11.2025

Week	Class Day	TheoryTopics
1st	1st	Unit-1:Introduction to Wireless networks & Mobile Computing Networks Wireless Networks
	2nd	Mobile Computing
	3rd	Mobile Computing Characteristics Application of Mobile Computing
	4th	Unit-2:Introduction to Mobile Development Framework C/S architectur n-tier architecture
2nd	1st	n-tier architecture and www Peer-to Peer architecture Mobile agent architecture
	2nd	Unit-3:Wireless Transmission Introduction Signals,Period Frequency and Bandwidth. Antennas
	3rd	Signal Propagation
	4th	Multiplexing
3rd	1st	Modulation
	2nd	Modulation
	3rd	Cellular System
	4th	Spread Spectrum
4th	1st	Unit-4:Medium Access Control Introduction Hidden/Exposed Terminals
	2nd	The basic Access Method Near/Far Terminals
	3rd	SDMA,FDMA,TDMA,CDMA
	4th	SDMA,FDMA,TDMA,CDMA
5th	1st	Unit-5:Wireless LANs Wireless LAN and communication,Infrared
	2nd	Radio Frequency IR Advantages and Disadvantages,
	3rd	Wireless Network Architecture Logical Types of WLAN
	4th	IEEE802.11,MAC layer
6th	1st	Security,Synchronization,Power Management, Roaming

	2nd	Bluetooth Overview
	3rd	Quiz
	4th	Unit-6:Ubiquitous Wireless Communication Scenario of Mobile Communication
7th	1st	Mobile Communication Generations 1G to 3G
	2nd	3rd Generation Mobile Communication Network
	3rd	Universal Mobile telecommunication System (UMTS)
	4th	Unit-7:MobileIP Working with mobileIP, MobileIP Entities,MobileIP Operation
8th	1st	Mobility Agents,Components of MobileIP
	2nd	Mobile IPv6 Features,Mobile IPv6 Address Types, Mobile IPv6 Address Scope
	3rd	Unit-8:Mobile Computing WWW architecture for Mobile computing,
	4th	Need of WAP
9th	1st	Benefits of WAP,Examples of WAP
	2nd	WAP-Architecture, WAP protocols
	3rd	WAP-Architecture ,WAP protocols
	4th	WML,WAP Push architecture
10th	1st	Push-Pull based data acquisition
	2nd	Push-Pull based data acquisition
	3rd	I-mode,WAP2.x
	4th	I-mode,WAP2.x
11th	1st	Unit-9:Wireless Telecomm Networks GSM
	2nd	GSM Architecture
	3rd	GSM Working Principle
	4th	GSM Working Principle
12th	1st	GPPS
	2nd	GPRS Architecture
	3rd	IS-95
	4th	CDMA-2000

13th	1st	CDMA-2000
	2nd	W-CDMA
	3rd	Wireless Sensor Networks
	4th	Unit-10: Messaging Services Short Message Services (SMS)
14th	1st	Multi media Message Services(MMS)
	2nd	Multimedia transmission over wireless
	3rd	Quiz
	4th	Revision and Discussion of Question Answer.
15th	1st	Revision and Discussion of Question Answer.
	2nd	Revision and Discussion of Question Answer.
	3rd	Revision and Discussion of Question Answer.
	4th	Revision and Discussion of Question Answer.

Maheswari Samal