SYNERGYSCHOOLOF ENGINEERING
DEPARTMENT OFELECTRICAL ENGINEERING

Discipline: Computer science Engineering	Semester: - 5th sem	Name of the teaching faculty: - PRAJNAPARAMITA KABI
Subject: - Mobile Computing	No. of Days/week class Allotted: -4	No. of weeks: -15 SESSION-2025-2026 WINTER Starting date- 14/7/25 Closing date- 15/11/25
No. of week	No. of class	Topic to be Taught
1	1ST	Introduction to wireless network and mobile computing
	2ND	Network
	3RD	Wireless Networks
	4TH	Mobile Computing
2	1ST	Mobile Computing Characteristics
	2ND	Application of Mobile Computing
	3RD	Introduction to mobile development frame work
	4TH	Mobile architecture
3	1ST	Mobile n-tier architecture
	2ND	Mobile n-tier architecture and www
	3RD	Peer-to Peer architecture
	4TH	Mobile agent architecture
4	1ST	Introduction to wireless transmission
	2ND	Signals transmissionPeriod, Frequency and Bandwidth.
	3RD	AntennasSignal Propagation
	4TH	MultiplexingModulation
5	1ST	Spread Spectrum
	2ND	Cellular System
	3RD	Introduction to medium access control
	4TH	2 Hidden/ Exposed Terminals
6	1ST	The basic Access Method
	2ND	Near / Far Terminals
	3RD	SDMA, FDMA
	4TH	TDMA CDMA
7	1ST	Wireless LAN and communication Infrared Radio Frequency
	2ND	IR Advantages and Disadvantages RF Advantages and Disadvantages
	3RD	Wireless Network Architecture Logical Types of WLAN IEEE 802.11
	4TH	MAC layer Security.
8	1ST	Synchronization Power Management
	2ND	Roaming Bluetooth Overview
	3RD	Introduction to Ubiquitous wireless communication
	4TH	Scenario of Mobile Communication
9	1ST	Mobile Communication Generations 1G to 3G
	2ND	Mobile Communication Generations 1G to 3G
	3RD	3rd Generation Mobile Communication Network
	4TH	Universal Mobile telecommunication System (UMTS)

10	1ST	Mobile IP Overview and Working with mobile IP
	2ND	Mobile IP Entities
	3RD	Mobility Agents Components of Mobile IP
	4TH	Mobile IPv6 Features
11	1ST	Mobile IPv6 Address Types and scope
	2ND	Mobile IP Operation
	3RD	WWW architecture for Mobile computing Need of WAP
	4TH	Benefits of WAP Examples of WAP
12	1ST	WAP- Architecture WAP protocols
	2ND	WML andWAP Push architecture
	3RD	Push-Pull based data acquisition and I-mode
	4TH	WAP 2.x
13	1ST	Wireless telecom networks GSM
	2ND	GPRS
	3RD	IS-95
	4TH	CDMA-2000
14	1ST	W-CDMA
	2ND	Wireless Sensor Networks
	3RD	Messaging service
	4TH	Short Message Services (SMS)
15	1ST	Short Message Services (SMS)
	2ND	Multimedia Message Services (MMS)
	3RD	Multimedia Message Services (MMS)
	4TH	Multimedia transmission over wireless

10/7/25
Signature of the faculty

19/07/25
HODEE

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11/07/25
PRINCIPAL
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