

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER  
Session-2022-2023

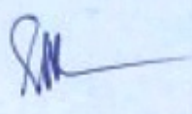
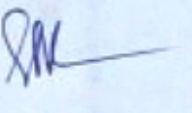
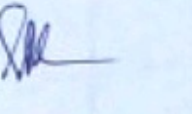

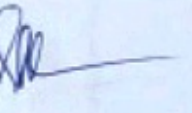
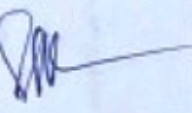

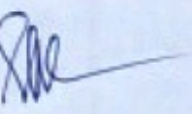
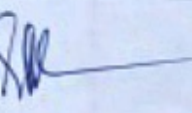
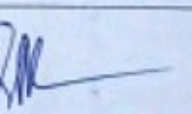
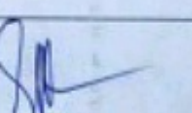
Discipline: Computer Science & Engg.

Semester: 5th      Subject: mobile computing (MC)

Name of the Teaching Faculty: Sunita Mahapatra

Subject: Mobile computing (MC) No. of Days/per week class allotted 04

Semester From Date: 15.09.22 To Date: 21.01.23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
15.09.22	introduction to wireless networks and mobile computing	introduction to WSN and mobile computing	wireless & wired networks	
16.09.22	NETWORKS	NETWORKS	Fixed and wired mobile and wired etc.	
19.09.22	wireless networks	wireless networks	Applications characteristics	
21.09.22	Mobile computing	Mobile computing	Mobile devices features	
22.09.22	Mobile computing characteristics	Mobile computing characteristics	Location dependent services etc.	
23.09.22	Application of mobile computing	Application of mobile computing	vehicles, emergencies	
26.09.22	introduction to mobile development framework	Mobile development framework	Mobile development Architecture	
28.09.22	C/S Architecture	C/S Architecture	C/S Architecture	
29.09.22	N-tier Architecture	N-tier Architecture	N-tier Architecture	
30.09.22	N-tier Architecture and WWW	N-tier Architecture	WWW details	
10.10.22	Peer-to-peer Architecture	Peer-to-peer Architecture	Peer-to-peer Architecture	

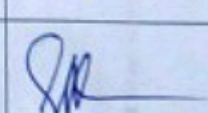
Subject: mobile computing No. of Days/per week class allotted 04

Semester From Date: 15.09.22 To Date: 21.01.23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
12.10.22	Mobile Agent Architecture	Mobile Agent Architecture	Mobile Agent Architecture using JVM	
13.10.22	wireless transmission, introduction, signals	introduction to wireless transmission	Frequencies of radio transmission	
14.10.22	period, frequency and Bandwidth	signals, period, frequency	signals, period definition	
17.10.22	Antennas, signal propagation	Bandwidth, Antennas	Bandwidth, Antennas	
19.10.22	multiplexing	signal propagation, multiplexing	multipath propagation, SDM, TDM	
20.10.22	Modulation	FDM, CDM	FDM, CDM	
21.10.22	spread spectrum, cellular system	modulation, spread spectrum	Digital, Analog Modulation, spectrum, DSSS, FHSS	
26.10.22	introduction to MAC	cellular system, MAC introduction	cell characteristics MAC	
27.10.22	Hidden / exposed terminals	Hidden / exposed terminals	Hidden / exposed terminal problem & solutions	
28.10.22	Basic Access methods (CSMA, CSMA/CA)	Basic Access methods CSMA, CSMA/CA	FDMA, CDMA, CSMA, TDMA	
31.10.22	Near / far terminals	Near / far terminals	CDMA, Aloha	

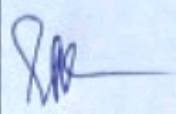
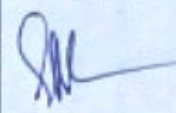
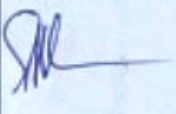

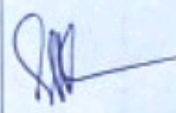

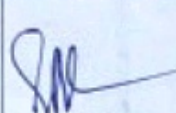
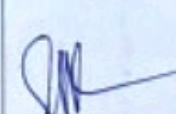
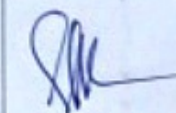
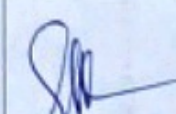

Subject: Mobile computing No. of Days/per week class allotted 04

Semester From Date: 15.09.22 To Date: 21.01.23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
02.11.22	SDMA, FDMA	Slotted Aloha, DAMA	Slotted Aloha, DAMA	
03.11.22	TDMA, CDMA	TDMA, CDMA	Slotted Aloha, classical Aloha	
04.11.22	Introduction to wireless LANs and communication	Introduction to WLAN	Advantages & disadvantages	
07.11.22	Infrared Radio Frequency	Infrared Radio Frequency	Infrared Radio Frequency	
09.11.22	IR advantages & disadvantages, Types of WLAN	IR advantages & disadvantages	Advantages & disadvantages of IR	
10.11.22	IEEE 802.11, MAC layer	IEEE 802.11 MAC layer	IEEE 802.11a, 802.11b	
11.11.22	Security, Synchronization, Power Management	Security, Synchronization, Power Management	Security Mechanisms, Power Management	
14.11.22	Roaming Bluetooth Overview	Roaming	Roaming	
17.11.22	Introduction to wireless ubiquitous comm.	Bluetooth intro. to ubiquitous wireless comm.	Bluetooth Structure	
18.11.22	Scenarios of mobile communication	Scenario of mobile communication	Diff. Mobile comm. technology	
21.11.22	Mobile comm. Generations (1G, 2G)	1G, 2G	1G, 2G	

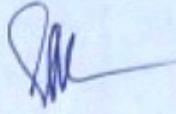
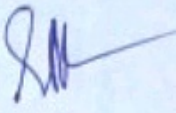
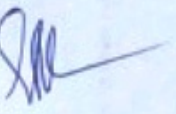


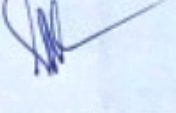


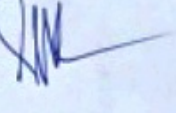
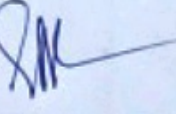
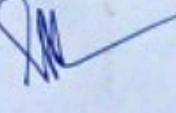
Subject: mobile computing No. of Days/per week class allotted 04

Semester From Date: 15.09.22 To Date: 21.01.23 No. of Weeks: 15

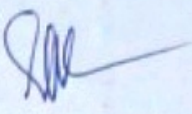
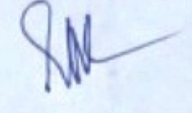
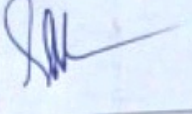
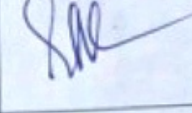
Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
23.11.22	2G, 3G	2G, 3G	2G, 3G	
24.11.22	3rd Gen. mobile communication network	3G mobile network	3G technology, protocols	
25.11.22	UMTS	UMTS	UMTS Architecture	
28.11.22	Mobile IP overview	Mobile IP	Mobile IP	
30.11.22	Working with mobile IP, mobile IP entities	Mobile IP entities	Mobile IP entities	
01.12.22	Mobility Agents, components of Mobile IP	Mobility Agents components	Mobility Agents components	
02.12.22	Mobile IPv6 features	IPv6 Features	IPv6 features	
05.12.22	IPv6 Address types, Address scopes	IPv6 Address types, Address scopes	IPv6 Address types, Address scopes	
07.12.22	Mobile IP operation	IP Address	IP Address	
08.12.22	Introduction to WWW Architecture	Introduction to WWW Architecture	Introduction to WWW	
09.12.22	Need of WAP, Benefits of WAP	WAP security, structure, Benefits	Benefits of WAP, security structure	

Subject: Mobile computing No. of Days/per week class allotted 04

Semester From Date: 15.09.22 To Date: 21.01.23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
12.12.22	Examples of WAP, WAP Architecture	Examples of WAP, WAP Architecture	Application layer, transaction layer	
14.12.22	WAP protocols, WML	WAP protocols	WAP models OMA	
15.12.22	WAP push Architecture, push-pull based data Acquisition	WML, WAP push pull Data Acquisition	Scripting of WML	
16.12.22	I-Mode, WAP 2.X	I-Mode, WAP 2.X	Standards of I-Mode	
19.12.22	Introduction to wireless networks, GSM	Introduction to wireless telecomm. network	BENEFITS OF wireless telecomm. network	
21.12.22	GPRS, GSM	GSM	GSM	
22.12.22	IS-95, GSM	GSM, GPRS	GSM, structure, protocols etc.	
23.12.22	CDMA-2000	GPRS, IS-95	GPRS structure, IS-95	
26.12.22	W-CDMA	CDMA-2000, W-CDMA	CDMA-2000 W-CDMA	
28.12.22	Wireless sensor networks	WSNs	Architecture of WSNs	
29.12.22	Introduction to messaging services	WSNs Benefits, Application	Application benefits of WSNs	

Subject: Mobile computing No. of Days/per week class allotted 04  
 semester From Date: 15.09.22 To Date: 21.01.23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
30.12.22	SMS	Introduction to messaging services	SMS types, definition, example	
02.01.23	SMS Structures	SMS Structures	SMS Structures	
04.01.23	MMS	Definition of MMS	Definition of MMS, examples description	
05.01.23	MMS Structures	MMS Structures	protocols, Architecture, size etc.	
11.01.23	Multimedia transmission over wireless networks	Multimedia transmission over wireless networks	Applications of Multimedia over wireless network	