

ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
LECTURE SCHEDULE

Subject: MOBILE COMPUTING

Academic Year:2017-18

Name:Dr.P.HARINI

Year&Sem/Section:IV-I SEM 'C'

No.of Lectures per week:
4+1(Tutorial)

S.No.	Date	Unit No.	Topic to be Covered
1	20-Jun-17	I	Introduction to Mobile Computing & Paradigm
2	21-Jun-17		Promises/Novel Applications
3	22-Jun-17		Impediments and Architecture
4	23-Jun-17		Mobile and Handheld Devices
5	24-Jun-17		Tutorial
6	27-Jun-17		Limitations of Mobile
7	28-Jun-17		Limitationsof Handheld Devices
8	29-Jun-17		GSM – Services&System Architecture
9	30-Jun-17		Radio Interfaces & GSM Protocols
10	1-Jul-17		Tutorial
11	4-Jul-17		Localization, Calling, Handover & Security
12	5-Jul-17		New Data Services, GPRS
13	6-Jul-17		Revisio through NPTEL Vedios/PPt's
14	7-Jul-17		UNIT TEST-1
15	11-Jul-17	II	Wireless Medium Access Control (MAC)
16	12-Jul-17		Motivation for a specialized MAC
17	13-Jul-17		Hidden and exposed terminals
18	14-Jul-17		Near and far terminals
19	15-Jul-17		Tutorial
20	18-Jul-17		SDMA, FDMA
21	19-Jul-17		TDMA, CDMA
22	20-Jul-17		Wireless LAN/(IEEE 802.11)
23	21-Jul-17		Revisio through NPTEL Vedios/PPt's
24	22-Jul-17		Tutorial
25	25-Jul-17		UNIT TEST-2
26	26-Jul-17	III	Mobile Network Layer : IP and Mobile IP Network Layers
27	27-Jul-17		Packet Delivery and Handover Management
28	28-Jul-17		Location Management,Registration
29	29-Jul-17		Tutorial
30	1-Aug-17		Tunneling and Encapsulation
31	2-Aug-17		Route Optimization & DHCP
32	3-Aug-17	IV	Mobile Transport Layer
33	4-Aug-17		Conventional TCP/IP Protocols
34	5-Aug-17		Tutorial

35	8-Aug-17	V	Indirect TCP, Snooping TCP
36	9-Aug-17		Mobile TCP
37	10-Aug-17		Other Transport Layer Protocols for Mobile Networks
38	11-Aug-17		Database Issues : Database Hoarding & Caching Techniques
39	12-Aug-17		Tutorial
40	16-Aug-17		MID EXAMINATION-1/Revision
41	17-Aug-17		MID EXAMINATION-1/Revision
42	18-Aug-17		MID EXAMINATION-1/Revision
43	19-Aug-17		MID EXAMINATION-1/Tutorial
44	22-Aug-17		MID EXAMINATION-1/Revision
45	23-Aug-17		Client-Server Computing & Adaptation
46	24-Aug-17		Transactional Models
47	29-Aug-17		Query processing
48	30-Aug-17		Data Recovery Process
49	31-Aug-17		QoS Issues
50	1-Sep-17		Revisio through NPTEL Videos/PPT's
51	5-Sep-17		UNIT TEST-4
52	6-Sep-17		Data Dissemination and Synchronization
53	7-Sep-17		Communications Asymmetry
54	8-Sep-17		Classification of Data Delivery Mechanisms
55	9-Sep-17		Tutorial
56	12-Sep-17	Data Dissemination, Broadcast Models	
57	13-Sep-17	Selective Tuning and Indexing Methods	
58	14-Sep-17	Data Synchronization – Introduction	
59	15-Sep-17	Software and Protocols	
60	16-Sep-17	Tutorial	
61	19-Sep-17	Revisio through NPTEL Vedios/PPT's	
62	20-Sep-17	UNIT TEST-5	
63	21-Sep-17	VI	Mobile Ad hoc Networks (MANETs) : Introduction
64	22-Sep-17		Applications & Challenges of a MANET
65	23-Sep-17	Tutorial	
66	26-Sep-17	Routing, Classification of Routing Algorithms	
67	27-Sep-17	Algorithms DSR	
68	3-Oct-17	Algorithms AODV, DSDV, etc.	
69	4-Oct-17	Mobile Agents, Service Discovery	
70	5-Oct-17	Protocols and Platforms for Mobile Computing	
71	6-Oct-17	WAP, Bluetooth, XML	
72	7-Oct-17	Tutorial	
73	10-Oct-17	J2ME, JavaCard	
74	11-Oct-17	PalmOS, Windows CE	
75	12-Oct-17	SymbianOS, Linux for Mobile Devices	
76	13-Oct-17	Linux for Android	
77	14-Oct-17	Tutorial	

78	17-Oct-17		MID EXAMINATION-2/Revision
79	18-Oct-17		MID EXAMINATION-2/Revision
80	19-Oct-17		MID EXAMINATION-2/Revision
81	20-Oct-17		MID EXAMINATION-2/Revision
82	21-Oct-17		Tutorial

Text Books:

1. Jochen Schiller, "Mobile Communications", Addison-Wesley, Second Edition, 2009.
2. Raj Kamal, "Mobile Computing", Oxford University Press, 2007, ISBN: 0195686772.

Reference Books:

1. ASOKE K TALUKDER, HASAN AHMED, ROOPA R YAVAGAL, "Mobile Computing, Technology Applications and Service Creation" Second Edition, Mc Graw Hill.
2. UWE Hansmann, Lothar Merk, Martin S. Nocklous, Thomas Stober, "Principles of Mobile Computing," Second Edition, Springer.

FACULTY

HOD