

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		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		V	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.

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