

Lesson Plan

Name of Faculty :Er. Arun Kumar

Discipline : B.Tech VI Semester CSE

Semester :6th

Subject :Mobile Computing

Lesson Plan Duration: 13 Weeks (From January, 2018 to April, 2018)

Work Load (Lecture/week (in hours) : Lectures - 04

Week	Theory		Practical	
	Lecture Day	Topic (Including Assignment/Test)	Practical Day	Topic
1 st	1 st I	Introduction, issues in mobile computing,		
	2 nd	overview of wireless telephony: cellular concept,		
	3 rd	Mobile computing Architecture		
	4 th	Design considerations for mobile computing		
2 nd	5 th	Number systems		
	6 th	Mobile Computing through Internet,		
	7 th	Making existing applications mobile enabled		
	8 th	GSM: air-interface, channel structure, location management: HLR-VLR		
3 rd	9 th	hierarchical, handoffs, channel allocation in Cellular systems		
	10 th	WCDMA		
	11 th	GPRS		
	12 th	3G		
4 th	13 th	4G		
	14 th II	Wireless Networking		

	15 th	Wireless LAN Overview: MAC issues		
	16 th	IEEE 802.11		
5 th	17 th	Bluetooth		
	18 th	Wireless multiple access protocols, TCP over wireless,		
	19 th	Wireless applications, data broadcasting		
	20 th	Mobile IP		
6 th	21 st	Revision/Sessional-1		
	22 nd	Revision/Sessional-1		
	23 rd	Revision/Sessional-1		
	24 th	WAP : Architecture		
7 th	25 th	Traditional TCP, Classical TCP		
	26 th	improvements in WAP, WAP applications.		
	27 th III	Data management issues, data replication for mobile computers,		
	28 th	adaptive clustering for mobilewireless networks,		
8 th	29 th	File system, Disconnected operations		
	30 th	Mobile Agents computing,		
	31 st	security and fault tolerance		
	32 nd	transaction processing in mobile computing environment		
9 th	33 rd	Cloud Architecture model, Types of Clouds: Public Private & Hybrid Clouds,		
	34 th	Resource management and scheduling		
	35 th	Clustering,		
	36 th	Data Processing in Cloud: Introduction to Map Reduce for Simplified data processing on Large clusters		
10 th	37 th IV	Ad hoc networks,		

	38 th	localization		
	39 th	MAC issues,		
	40 th	Routing protocols, global state routing (GSR),		
11 th	41 st	Revision/Sessional-2		
	42 nd	Revision/Sessional-2		
	43 rd	Revision/Sessional-2		
	44 th	Destination sequenced distance vector routing (DSDV)		
12 th	45 th	Dynamic source routing (DSR),		
	46 th	Ad Hoc on demand distance vector routing (AODV),		
	47 th	Temporary ordered routing algorithm (TORA),		
	48 th	QoS in Ad Hoc Networks,		
13 th	49 th	applications.		
	50 th	Revision for Part One		
	51 st	Revision for Part Second		
	52 nd	Revision		