

Lesson Plan

Name of the Faculty : Ms. Ginni Chawla

Discipline : Computer Science & Engineering

Semester : 6th

Subject : Mobile Computing

Lesson Plan duration : 15 weeks (from January, 2018 to April, 2018)

Work Load (Lecture) per week (in hours): Lecture-03

Week	Theory	
	Lecture Day	Topic
1 st	1 st	<ul style="list-style-type: none"> • Introduction to mobile computing
	2 nd	<ul style="list-style-type: none"> • Issues in mobile computing
	3 rd	<ul style="list-style-type: none"> • Overview of wireless telephony: cellular concept
2 nd	4 th	<ul style="list-style-type: none"> • Mobile computing Architecture
	5 th	<ul style="list-style-type: none"> • Design considerations for mobile computing
	6 th	<ul style="list-style-type: none"> • Mobile Computing through Internet
3 rd	7 th	<ul style="list-style-type: none"> • Making existing applications mobile enabled
	8 th	<ul style="list-style-type: none"> • GSM: air-interface
	9 th	<ul style="list-style-type: none"> • Channel structure
4 th	10 th	<ul style="list-style-type: none"> • Location management: HLR-VLR, hierarchical
	11 th	<ul style="list-style-type: none"> • Handoffs
	12 th	<ul style="list-style-type: none"> • Channel allocation in Cellular systems
5 th	13 th	<ul style="list-style-type: none"> • WCDMA
	14 th	<ul style="list-style-type: none"> • GPRS 3G,4G
	15 th	<ul style="list-style-type: none"> • Wireless Networking,
6 th	16 th	<ul style="list-style-type: none"> • Wireless LAN Overview: MAC issues
	17 th	<ul style="list-style-type: none"> • IEEE 802.11
	18 th	<ul style="list-style-type: none"> • Blue Tooth
7 th	19 th	<ul style="list-style-type: none"> • Wireless multiple access protocols
	20 th	<ul style="list-style-type: none"> • TCP over wireless
	21 st	<ul style="list-style-type: none"> • Wireless applications • Data broadcasting
8 th	22 nd	<ul style="list-style-type: none"> • Mobile IP
	23 rd	<ul style="list-style-type: none"> • WAP : Architecture
	24 th	<ul style="list-style-type: none"> • Traditional TCP
9 th	25 th	<ul style="list-style-type: none"> • Classical TCP
	26 th	<ul style="list-style-type: none"> • Improvements in WAP • WAP applications
	27 th	<ul style="list-style-type: none"> • Data management issues
10 th	28 th	<ul style="list-style-type: none"> • Data replication for mobile computers

	29 th	<ul style="list-style-type: none"> Adaptive clustering for mobile wireless networks
	30 th	<ul style="list-style-type: none"> File system
11 th	31 st	<ul style="list-style-type: none"> Disconnected operations Mobile Agents computing
	32 nd	<ul style="list-style-type: none"> Security and fault tolerance
	33 rd	<ul style="list-style-type: none"> Transaction processing in mobile computing environment.
12 th	34 th	<ul style="list-style-type: none"> Cloud Architecture model
	35 th	<ul style="list-style-type: none"> Types of Clouds: Public Private & Hybrid Clouds
	36 th	<ul style="list-style-type: none"> Resource management and scheduling
13 th	37 th	<ul style="list-style-type: none"> Clustering
	38 th	<ul style="list-style-type: none"> Data Processing in Cloud: Introduction to Map Reduce for Simplified data processing on Large clusters
	39 th	<ul style="list-style-type: none"> Ad hoc networks Localization MAC issues
14 th	40 th	<ul style="list-style-type: none"> Routing protocols global state routing (GSR)
	41 st	<ul style="list-style-type: none"> Destination sequenced distance vector routing (DSDV)
	42 nd	<ul style="list-style-type: none"> Dynamic source routing (DSR)
15 th	43 rd	<ul style="list-style-type: none"> Ad Hoc on demand distance vector routing (AODV)
	44 th	<ul style="list-style-type: none"> Temporary ordered routing algorithm (TORA)
	45 th	<ul style="list-style-type: none"> QoS in Ad Hoc Networks Applications