

Lesson Plan

Name of Faculty : Er. Arushi Bansal, Guest Faculty of CSE
 Discipline : Computer Science and Engineering
 Semester : 6th
 Subject : Wireless and mobile communication (PEC-CSE302-T)
 Lesson Plan Duration : Jan 2021- July 2021

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

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1 st	1	Frequencies, signals			
	2	Antennas, signal propagation			
	3	Multiplexing			
	4	Problems session			
2 nd	5	Modulation			
	6	Spread spectrum, cellular system			
	7	Specialized MAC, SDMA			
3 rd	8	Problems session			
	9	FDMA, TDMA, fixed tdm			
	10	Classical aloha, slotted aloha, CSMA, DAMA			
	11	PRMA, reservation TDMA, collision avoidance, polling			
	12	Problems session			
4 th	13	Inhibit sense multiple access, CDMA			
	14	GSM, mobile services, architecture			
	15	Radio interface, protocol, localization, calling handover			
	16	Problems session			
5 th	17	Security, data services, introduction to WLL			
	18	Revision of unit 1			
	19	Wireless LAN			
	20	Problems session			
6 th	21	Bluetooth			
	22	WiMax			
	23	Introduction to LTE			
	24	Problems session			
7 th	1 st minor test				
8 th	25	Revision of unit 2			
	26	Mobile IP, goals, assumptions			
	27	Requirement, entities, terminology			
	28	Problems session			
9 th	29	IP packet delivery, agent advertisement and discovery, registration			
	30	Tunnelling			
	31	Encapsulation			
	32	Problems session			
10 th	33	Optimization			
	34	Reverse tunnelling			
	35	IPV6			
	36	Problems session			
11 th	37	DHCP			
	38	Adhoc networks-routing			
	39	Destination sequence distance vector			
	40	Problems session			
12 th	41	Dynamic source routing			
	42	Hierarchical algorithm			
	43	Alternative metric			
	44	Problems session			
13 th	45	Revision of unit 3			
	46	Mobile transport layer, Traditional TCP, Indirect TCP			
	47	Snooping TCP			
	48	Problems session			
14 th	2 nd minor test				
15 th	49	Mobile TCP fast retransmission, Recovery			
	50	Transmission time out freezing			
	51	Selective transmission, Transaction oriented TCP			
	52	Problems session			