

MERI COLLEGE OF ENGINEERING AND TECHNOLOGY

Asanda, Near Sampla

(www.meri.edu.in/engineering/)

LESSON PLAN

Name of the faculty : Dr. Umesh Gupta

Discipline : Electronics and Communication Engineering

Semester : 7th

Subject : Wireless Communication

Lesson Plan Duration : 15 weeks (From August, 2018 to November 2018)

Work Load (Lecture/ Practical) per week (in hours): Lecture-04, Practical-02

Week	Theory		Practical	
	Lecture day	Topic(Including assignment/test)	Practical Day	Topic
1 st	1 st	Introduction To Wireless Communication Systems	1 st	WIRELESS PATH LOSS COMPUTATIONS
	2 nd	Evolution of mobile radio communications		
	3 rd	Examples of wireless comm. systems		
	4 th	Paging systems		
2 nd	1 st	Cordless telephone systems,	2 nd	Free Space Propagation – Path Loss Model
	2 nd	Comparison of various wireless systems.		
	3 rd	Comparison of various wireless systems.		
	4 th	Modern Wireless Communication Systems		
3 rd	1 st	Second generation cellular networks	3 rd	Link Budget Equation for Satellite Communication
	2 nd	Second generation cellular networks		
	3 rd	Third generation wireless networks		
	4 th	Third generation wireless networks		
4 th	1 st	Wireless in local loop	4 th	Carrier to Noise Ratio in Satellite Communication
	2 nd	Wireless local area networks		
	3 rd	Wireless local area networks		
	4 th	Blue tooth and Personal Area networks.		
5 th	1 st	Introduction To Cellular Mobile Systems	5 th	Outdoor Propagation – Okumura Model
	2 nd	Spectrum Allocation		
	3 rd	Spectrum Allocation		
	4 th	Basic of Cellular Systems		
6 th	1 st	Basic of Cellular Systems	6 th	Study of wireless

	2 nd	Performance Criteria		Communications using Communication Trainer Kits
	3 rd	Operation of cellular systems		
	4 th	Analog cellular systems		
7 th	1 st	Analog cellular systems	7 th	BASEBAND COMMUNICATION
	2 nd	Digital Cellular Systems		
	3 rd	Digital Cellular Systems		
	4 th	Ellular System Design Fundamentals		
8 th	1 st	Frequency Reuse	8 th	Adaptive Linear Equalizer
	2 nd	Channel assignment strategies		
	3 rd	channel assignment strategies		
	4 th	Handoff Strategies		
9 th	1 st	Interference and system capacity	9 th	Code Division Multiple Access (CDMA) - Multipath
	2 nd	Tracking and grade off service		
	3 rd	Improving coverage and capacity		
	4 th	Multiple Access Techniques For Wireless Communication		
10 th	1 st	Introduction to Multiple Access	10 th	Code Division Multiple Access (CDMA) – Multiuser
	2 nd	Introduction to FDMA		
	3 rd	Introduction to TDMA		
	4 th	Spread Spectrum multiple Access		
11 th	1 st	Space division multiple access	11 th	Global System for Mobile Communication (GSM)
	2 nd	Packet ratio		
	3 rd	Capacity of a cellular systems		
	4 th	Wireless Networking		
12 th	1 st	Difference between wireless and fixed telephone networks	12 th	Spread Spectrum
	2 nd	Development of wireless networks		
	3 rd	Fixed network transmission hierarchy		
	4 th	Traffic routing in wireless networks		
13 th	1 st	Wireless data services	13 th	DSSS Modulation & Demodulation
	2 nd	Common channel signaling		
	3 rd	ISDN (Integrated Services digital Networks)		
	4 th	Advanced intelligent networks		
14 th	1 st	Intelligent cell concept and application	14 th	Revision
	2 nd	Intelligent cell concept		
	3 rd	Applications of intelligent micro-cell Systems		
	4 th	in-Building Communication		
15 th	1 st	CDMA cellular Radio Networks	15 th	Internal Examination
	2 nd	Discussion on previous year question papers		
	3 rd	Discussion on previous year question papers		
	4 th	Discussion on previous papers		