Lesson Plan

Name of the Faculty : Er. Chander Mohan (Theory/Practical)

Discipline : Electronics and Communication Engineering

Semester : 8th

Subject : Wireless & Mobile Communication (ECE-402N)
Wireless & Mobile Communication Lab (ECE-408N)

Lesson Plan Duration : 15 weeks (from January, 2020 to April, 2020)

**Work Load (Lecture / Practical) per week (in hours) : Lectures-04, Practical-03

Week	Theory		Practical	
	Lecture Day	**Topic (including assignment / test)**	**Practical Day**	**Topic**
1st	1st	Evolution of mobile radio communications	1st	Introduction to CommSim and familiarization with its basic functions.
	2nd	Examples of wireless comm. Systems		
	3rd	Paging systems and Cordless telephone systems		
2nd	4th	Comparison of various wireless systems	2nd	To study and simulate the Amplitude Modulation.
	5th	Second generation cellular networks		
	6th	Third generation wireless networks		
3rd	7th	Wireless in local loop	3rd	To study and simulate the Amplitude demodulation.
	8th	Wireless local area networks		
	9th	Bluetooth and Personal Area networks.		
4th	10th	Spectrum Allocation, basic Cellular Systems	4th	To study and simulate the Frequency Modulation.
	11th	Performance Criteria, Operation of cellular systems		
	12th	Analog cellular systems		
5th	13th	Digital Cellular Systems	5th	First Internal Viva
	14th	Frequency Reuse		
	15th	Channel assignment strategies		
6th	16th	Channel assignment strategies	6th	To study and simulate the Frequency Demodulation.
	17th	Handoff Strategies		
	18th	Handoff Strategies		
7th	19th	Interference and system capacity	7th	To study and simulate the Amplitude shift keying.
	20th	Tracking and grade off service		
	21st	Improving coverage and capacity		
8th	22nd	Introduction to Multiple Access	8th	To study and simulate the Frequency shift keying
	23rd	FDMA		
	24th	TDMA		

9th	25th	Spread Spectrum multiple Access	9th		Second Internal Viva
	26th	Space division multiple access			
	27th	Packet			
10th	28th	Ratio capacity of a cellular system	10th		To study and simulate the Phase shift keying
	29th	GSM			
	30th	GSM			
11th	31st	GSM	11th		Implementation of M-PSK transmitter using SDR concept.
	32nd	IS-95 CDMA			
	33rd	IS-95 CDMA			
12th	34th	IS-95 CDMA	12th		Implementation of M-PSK receiver using SDR.
	35th	UMTS-IMT-2000			
	36th	UMTS-IMT-2000			
13th	37th	UMTS-IMT-2000	13th		Implementation of M-QAM transmitter using SDR.
	38th	Signaling			
	39th	Signaling			
14th	40th	Call Control	14th		Design two-dimensional convolution to perform image edge detection.
	41st	Call Control			
	42nd	Mobility Management			
15th	43rd	Mobility Management	15th		Third Internal Viva
	44th	Location Tracing			
	45th	Location Tracing			

Er. Chander Mohan

Assistant Professor

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