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Lovely Professional University, Phagwara

INSTRUCTIONAL PLAN (for Lectures)

Term: _____

Course No. ECE- 401

Course Title: Cellular and Mobile Communication

L: 3 T: 1 P: 0

Textbook: 1. Wireless Communications: Theodore S. Rappaport; Pearson.

Other specific books: 2. Mobile Communications: Jochen Schiller; Pearson.

3. Mobile Cellular Telecommunication: W.C.Y.Lee; McGraw Hill.

4. Raj Pandya, Mobile and Personal Communication System and Services, Prentice Hall of India.

Other readings:

S.No.	Journal articles as compulsory readings (Complete reference)
5.	www.IEEE.com/communication/mag
6.	http://en.wikipedia.org/wiki/CDMA2000
7.	http://en.wikipedia.org/wiki/Wi-Fi , http://en.wikipedia.org/wiki/Bluetooth

Relevant websites:

S.No.	Web address (Exact page address)	Salient Features
8.	http://en.wikipedia.org/wiki/GSM	GSM-technical details.
9.	http://bnrg.eecs.berkeley.edu/~randy/Courses/CS294.S96/CS294-7.S96.html	Cellular mobile system

Detailed Plan for Lectures

Plan for 12×L lectures: 6×L for before the MTE, 6×L for after the MTE. Provide for at least 2×L spill-over lecture.

Lecture No.	Topic	Chapters/ Sections of Textbook/ other reference ¹	Assignment/ Task to be assigned to students		Pedagogical aid Demonstration/ case study/ images/ animations etc. ⁵	Date Delivered ²
			³	DoS ⁴		
1.	Evolution of mobile radio communications,	Chapt.-1, pg.1-3				
2	Examples of wireless comm. systems, Paging systems,	Chapt.-1, pg.9-15				
3	Cordless telephone systems.	Chapt.-1, pg.9-15				
4	Comparison of various wireless systems.	Chapt.-1, pg.18-20				
5	2G cellular networks: GSM specifications and Air Interface-specifications of various units.	Chapt.-2, pg.26-29				
6	GSM specifications, GSM architecture.	Chapt.-2, pg.26-29	Assig. 1		Images	
7	2.5G systems; GPRS/EDGE	Chapt.-2,				

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