

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO
DEPARTMENT OF TELECOMMUNICATION ENGINEERING

FRM-001/00/QSP-004, Dec. 01.2001

Tentative Teaching Plan

Name of Teacher: **Prof. Dr. A. Waheed Umrani**

Subject: **Wireless Communications**

Batch: **13TL Section I**

Year: **Final**

Term: **1st**

Term Starting Date: **04-01-2015**

Term Suspension date: **24-04-2015**

S. No.	Topic	No. of lectures required
01	Overview of Subject and its outlines	01
	Part I	
02	Introduction to Wireless System and their classifications	02
03	Wireless Propagation mechanisms	02
04	Large Scale propagation models	02
05	Small scale propagation models	02
06	Path Geometry: Plane Earth Model	02
07	Path Geometry: Curved Earth Model (Tutorial 1)	01
08	Path Geometry: Diffraction and Reflection	02
09	Measuring the Quality of Communication Link	01
10	Multipath Fading	02
11	Multipath Fading Models	02
12	Multipath Fading and its alleviation (Tutorial 2)	02
	Part II	
13	Introduction to Cellular Systems + Class Test	01
14	Cellular Concepts and Principles	02
15	Cellular Concepts and Principles (Contd.)	02
16	Performance Improvement Techniques in Cellular Systems (Tutorial 3)	02
17	Global System for Mobile Communications (GSM)	03
18	GPRS & EDGE	02
	Part III	
19	UMTS (Tutorial 4)	02
20	Wi-fi and Wi-Max System	02
21	LTE Systems and Beyond	02
22	Ultra-wideband communications	01
23	5G Scenario (optional) + Assignment	02
	Total	42

Signature of Teacher:

Date: 04-01-2015

Remarks of DMRC:

Signature of Chairman

Date: