

## LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	23 <sup>rd</sup> /12 2013	Cellular mobile Radio Systems: Introduction	I	BB		
2	24/12	Introduction to Cellular mobile system	"	"		
3	26/12	performance criteria	"	"		
4	30/12	Uniqueness of mobile radio environment	"	"		
5	31/12	operation of cellular system	"	"		
6	2/01 2014	Hexagonal shaped cells	"	"		
7	3/01	Analog & digital cellular systems	"	"		
8	6/01	Elements of cellular radio system design: General description of the problem	II	"		
9	7/01	concept of frequency channels, co-channel interference reduction factor	"	"		
10	8/01	desired c/s from a normal case in a omni-directional antenna system.	"	"		

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7	3/01	Analog & digital cellular systems	"	"		
8	6/01	Elements of cellular radio system design: General description of the problem	II	"		
9	7/01	concept of frequency channels, co-channel Interference reduction factor	"	"		
10	8/01	desired C/I from a normal case in a omni-directional antenna system.	"	"		

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25	5/2	Phase difference b/w direct &	"	PPT		
26	6/2	reflected path	"	"		
27	7/2	Constant standard deviation	"	"		
28	10/2	straight line path loss slope.	"	"		
29	11/2	General formula for mobile propagation over water and flat open area	"	"		
30	12/2	Near & long distance propagation antenna height gain	"	"		
31	13/2	Form of a point-to-point model	"	"		
32	14/2		"	"		
33	17/2	cell site & mobile antennas	V	BB		
34	18/2	sum & difference patterns and their	"	"		
35	19/2	synthesis	"	"		
36	20/2	omni-directional antennas	"	"		
37	21/2	Directional antennas for interference	"	"		
38	24/2	Reduction.	"	"		
39	25/2	space diversity antennas	"	"		
40	26/2	Umbrella pattern antennas	"	"		

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41	28/2	Minimum Separating of cell site antennas.	11	BB		
42	3/3	High gain antennas	11	11		
43	4/3	Frequently management & channel Assignment	VI	11		
44	5/3	Numbering & Grouping.	11	11		
45	6/3	Setup access & Paging channels	11	11		
46	7/3	channel assignments to cell site log and	11	11		
47	10/3	mobile units	11	11		
48	11/3	Channel sharing &	11	11		
49	12/3	channel borrowing	11	11		
50	13/3	cellularization	11	11		
51	14/3	Overlaid cells.	11	11		

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52	18/3	non-fixed channel Assignment	VI	V		
53	19/3	Handoff	<u>VII</u>	PPT		
54	20/3	Dropped Calls	"	"		
55	21/3	Call Spitting	"	"		
56	24/3	Types of Hand-off	"	"		
57	25/3		"	"		
58	26/3	Handoff initiation	"	"		
59	27/3	Delaying Hand-off, forced Handoff	"	"		
60	28/3	mobile assigned Handoff - Inter system Handoff	"	"		
61	1/4	Cell Spitting micro cells.	"	"		

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62	2/4	cell splitting,	"	"		
		micro cells.				
63	3/4	vehicle locating methods.	"	"		
64	4/4	Dropped call rate and their evaluation.	"	"		
65	7/4	Digital cellular networks	VIII	PPT		
66	8/4	GSM architecture	"	"		
67	9/4	GSM channels.	"	"		
68	10/4	multiple access schemes	"	"		
69	11/4	FDMA & CDMA	"	"		<del>CDMA</del>