

## LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	22/12/2015	Introduction to communication SSB	I	BB		
2	23/12/2015	Need for Modulation		"		
3,4	24/12/2015	Classification of Modulation		"		
5	29/12/2015	Time Domain Description		"		
6	30/12/2015	Frequency Domain Description		"		
7	31/12/2015	Single tone and Multi tone AM Modulation		"		
8	31/12/2015	Power and current relation in AM wave		"		
9	5/1/2016	Generation of AM wave: Square law Modulator		"		
10	6/1/2016	Switching Modulator		"		
11,12	7/1/2016	Detection of AM wave: Square law detector Envelope detector		"		

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Period	Date (Tentative)	Topic	Unit No.	Teach Method
1	12/01/2016	DSBSC Modulation time and frequency Domain description	II	BT
2	13/01/2016	Generation of DSBSC wave, - Balanced Modulator		"
3,4	14/01/2016	Ring Modulator, coherent detection of DSBSC Modulated wave, COSTAS loop		"
5	19/01/2016	SSB Modulation Freq. Domain desc		"
6	20/01/2016	Freq. discrimination method for gen of AM SSB Mod wave		"
7,8	21/01/2016	Time Domain desc, Phase discrimination meth for gen AM SSB wave		"
9	21/2/2016	Demodulation of SSB wave		"
10	3/2/2016	VSB Modulation		"
11,12	4/2/2016	Comparison of AM techniques Applications of different AM Systems		"

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	9/12/2016	Angle Modulation Basic concepts	III	BB		
2	10/12/2016	single tone FM modulation		"		
		single tone Phase Modulation				
3,4	11/12/2016	freq analy of sinu wave FM, PM signals		"		
		Difference b/w FM, PM signals				
5	15/12/2016	Narrow band FM wide band FM		"		
6	16/12/2016	constant average power		"		
		Transmission BW of FM wave				
7,8	18/12/2016	generation of FM, PM signals		"		
		direct and indirect methods				
		detection of FM wave -				
9	23/12/2016	Balanced freq discriminator		"		
		zero crossing detector				
10	24/12/2016	PLL, comparison of AM, FM		"		
12	25/12/2016	Multiplexing		"		
		FDM, TDM				
		comparison b/w FDM, TDM				

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology
1	11/12/2016	Radio transmission; classification of TX's	IV	BB
2	21/3/2016	AM TX, Effect of feedback on performance of AM TX		"
3	8/3/2016	FM Transmitter variable reactance		"
4	9/3/2016	Phase modulated FM TX		"
5,6	10/3/2016	Freq. stability in FM TX		"
		Radio RX: classification		
7	15/3/2016	Tuned radio freq. Rx, super heterodyne Rx		"
8	16/5/2016	RF section and characteristics		"
9,10	17/3/2016	Frequency changing and tracking		"
		Intermediate freq., AGC		
11	22/3/2016	communication		"
		Rx, FM Rx		
12	23/3/2016	Comparison with AM Rx, Amplitude limiting		"

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remark
1,2	28/3/2016	Pulse modulation	<u>V</u>	BB	
		Types of Pulse Modulation			
3	29/3/2016	PAM (Single Polarity, Double Pol)		"	
4	30/3/2016	Generation and demodulation of PAM		"	
5,6	31/3/2016	Generation and demodulation of PWM, PPM		"	
7	5/4/2016	Noise in analog Modulation		"	
		Signal to noise Ratio.		"	
8	6/4/2016	AM Rx Model		"	
9,10	7/4/2016	SNR for coherent detection,		"	
		Noise in AM Rx in using envelope detection.			
11	12/4/2016	FM Rx Model		"	
		FM threshold effect-			
12		Pre-emphasis			
		De-emphasis			