

B Sc. Electronics, 5th Semester
ELHT-502 ANALOG COMMUNICATION

Dates	Unit	Topics Covered
20/7/2016 - 29/7/2016	I	Block diagram of communication system
		EM spectrum
		Band Designation and application
		Need for Modulation
1/8/2016 - 5/8/2016	I	Concept of channels and base band signals
		External noise
		Internal noise
		Signal to noise ratio
		Noise factor
		Noise temperaure
8/8/2016 - 12/8/2016	II	Friss formulae
		Amplitude modulation
		Modulation index
		Frequency spectrum
15/8/2016 - 19/8/2016	II	Generation of AM
		Amplitude demodulation
		Diode detector
22/8/2016 - 26/8/2016	II	DSBSC modulation and demodulation
		SSB modulation
		SSBSC generation (Filter method, phase cancellation method, third method)
29/8/2016 - 2/9/2016	II	SSB detection
		Pilot carrier modulation
		VSB modulation
5/9/2016 - 13/9/2016	III	ISB modulation
		Phase and frequency modulation
		Modulation index
		FM frequency spectrum
14/9/2016 - TEST I		Amplitude modulation - Unit II complete
15/9/2016 - 21/9/2016	III	Equivalence between FM and PM
		Generation of FM (Direct and indirect method)
		Varactor diode
		Reactance modulation
22/9/2016 - 27/9/2016	III	Amstrong method
		FM detector -Slope detector, balanced scope detector, PLL
		Comparison of FM, PM, AM
28/9/2016 - TEST II		Frequency modulation - Unit III complete
29/9/2016 - 7/10/2016	IV	AM transmitters
		Channels for AM, FM broadcast

10/10/2016 - 11/10/2016	IV	Low level and high level modulators FM transmitters
21/10/2016 - TEST III		AM, FM transmitters, Low level and high level modulators
24/10/2016 - 28/10/2016	IV	Recievers Superheterodyne recievers Double conversion recievers
31/10/2016 - 4/11/2016	IV	AM, FM recievers + Revision
7/11/2016 - 10/11/2016		Revision