

	GURGAON INSTITUTE OF TECHNOLOGY & MANAGEMENT	
	Department : Electronics & Communication Branch / Sem : ECE / EE 4 th Sem	Session : JAN-MAY 18 Subject Name & Code : Communication System / POCS
Lesson Plan		TEACHER : SUNIL KUMAR

Lecture No.	Topics to be Covered
	SECTION-A
1	Introduction of communication system, the essentials of a Communication system,
2	Modes and media's of Communication, Classification of signals and systems
3	Analog Communication & Digital Communication.
4	Basic concepts of Modulation, Demodulation.
5	Channels,
6	Multiplexing & Demultiplexing
7	Revision of Unit
	SECTION-B
8	Amplitude modulation,
9	Generation of AM waves, Demodulation of AM waves
10	DSBSC, Generation of DSBSC waves,
11	Single side band modulation, generation of SSB waves, demodulation of SSB waves
12	Vestigial sideband modulation (VSB).
13	ANGLE MODULATION, Phase modulation (PM) & frequency modulation(FM),
14	Narrow band frequency modulation, wideband frequency modulation,
15	Generation of FM waves
16	Demodulation of FM waves

17	Revision
	SECTION-C
18	PULSE ANALOG MODULATION: Sampling theory,
19	Sampling and hold circuits.
20	Time division (TDM) and frequency division (FDM) multiplexing,
21	Pulse amplitude modulation (PAM), pulse time modulation.
22	PULSE DIGITAL MODULATION : Coding & Decoding techniques,
23	Elements of pulse code modulation, noise in PCM systems, Measure of information,
24	Channel capacity and channel capacity of PCM system
25	Differential pulse code modulation (DPCM). Delta modulation (DM)
26	Revision
	SECTION-D
27	ASK, FSK
28	BPSK, QPSK
29	M-ary PSK, PC-PC data Communication.
30	External noise, internal noise,
31	S/N ratio, noise figure
32	Revision of Unit
33	Revision of Syllabus