

Lesson Plan

Name of Faculty	:	Dr. Suman Rani, Assistant Professor
Discipline	:	CSE
Semester	:	6 th
Subject	:	Fundamental of Communication Systems (OE/ECE/4-T)
Lesson Plan Duration	:	15 weeks
Work Load (Lecture/Practical) per week (in hours):		Lectures-03

Week	Theory		Actual Covered	Signature
	Lecture Day	Topic (Including Assignment/Test)		
1 st	1	UNIT-1 Introduction to Communication System,		
	2	Terminologies for Communications Systems		
	3	Electromagnetic spectrum and typical application		
2 nd	4	concept of electrical communication		
	5	modes and media of Communication		
	6	Elements of analog Communication system		
3 rd	7	Need for modulation.		
	8	Amplitude Modulation: Theory of AM		
	9	Mathematical expression		
4 th	10	Waveforms		
	11	modulation index		
	12	types of AM		
5 th	13	Generation of AM: Square law modulation,		
	14	Switching modulator,		
	15	Balanced modulator.		
6 th	16	Frequency Modulation: Theory of FM		
	17	Mathematical expression		
	18	waveforms, modulation index		
7 th		1st Minor Test		
8 th	19	Narrow band and Wide band FM		
	20	Comparison between AM and FM;		
	21	Generation of FM: Direct Methods-Varactor diode modulator		
9 th	22	Indirect method-Armstrong FM system.		
	23	Digital modulation techniques: Sampling theorem		
	24	ASK techniques theory, mathematical expressions		
10 th	25	FSK techniques theory, mathematical expressions		
	26	PSK techniques theory, mathematical expressions		
	27	Block diagram of generation		
11 th	28	Block diagram of degeneration.		
	29	Digital Modulation (CBS)		
	30	PCM (CBS)		
12 th	31	DPCM (CBS)		
	32	Revision Unit-1		
	33	Revision Unit-2		
13 th	34	Revision Unit-3		
	35	Revision Unit-4		
	36	MCQ Based on unit1		
14 th		2nd Minor Test		
15 th	37	MCQ Based on unit 2		
	38	MCQ Based on unit 3		
	39	MCQ Based on unit 4		