

# LESSON PLAN

Period	Date (tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	25/8	Introduction to Digital Comm.	4			
2	26/8	Elements of digital comm system				
3	27/8	Advantages of digital comm system				
4	28/8	Elements of PCM Sampling, quantization				
5	1/9	coding, quantization error		Black Board		
6	2/9	companding in PCM systems		&		
7	3/9	Differential PCM System		PPTS		
8	4/9	Continued. Problems.				
9	5/9	Delta modulation	2			
10	8/9	Its drawbacks Demodulation				
11	9/9	Adaptive delta modulation		Black Board		
12	10/9	Continued.				
13	11/9	Comparison of PCM & DM				
14	12/9	Noise in PCM (S/N) of PCM				
15	15/9	(S/N) of DM system				

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Period	Date (tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
16	16/9	Introduction, ASK	3			
17	17/9	FSK system				
18	18/9	PSK mod & Demod. sys				
19	19/9	DPSK modulation & Demod		Black Board		
20	22/9	DEPSK, QPSK system				
21	23/9	continued.		PPTs		
22	24/9	M-ary PSK, ASK FSK				
23	25/9	Similarity of BPSK and QPSK				
24	26/9	Base band signal receiver	4			
25	29/9	Probability of error optimum filter				
26	30/9	Matched filter		Black Board		
27	6/10	Probability of error using matched filter				
28	7/10	continued.				
29	8/10	coherent reception				
30	9/10	Non coherent detection of FSK				
31	10/10	Calculation of error prob of ASK, BPSK				
32	13/10	BFSK, PSK calculation				

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Serial	Date	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
33	14/10	Discrete messages concept of amt of info.	5			
34	15/10	Properties Average information				
35	16/10	Entropy and properties				
36	17/10	Information rate Problems		Black Board		
37	21/10	Mutual Information and its properties				
38	22/10	Problems.				
39	23/10	Introduction	6			
40	24/10	Advantages. Shannon's theorem				
41	27/10	Shannon-Fano coding				
42	28/10	Problems.		Black		
43	29/10	Huffman coding problems.		Board		
44	30/10	efficiency calculations.				
45	31/10	channel capacity of discrete and analog channels.				
46	3/11	capacity of gaussian channel, etc				
47	4/11	AWGN - SNR trade off				

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Period	Date (tentative)	Topic	Unit No	Teaching Methodology	Remarks	Corrective Act Upon Review
48	14/11	Introduction	7			
49	17/11	Matrix description of Linear blk codes				
50	18/11	Error, detection & correction capabilities				
51	19/11	Hamming codes		Black Board		
52	20/11	Binary cyclic codes				
53	21/11	Algebraic structure				
54	24/11	encoding, syndrome calculations BCH codes				
55	26/11	Introduction	8			
56	27/11	encoding of convolution codes				
57	1/12	time domain approach		Black		
58	2/12	transform domain approach		Board		
59	3/12	graphical approach state diagram				
60	4/12	tree & trellis diagrams				
61	8/12	Viterbi algorithm				
62	9/12	Continued.				write point 24/12