

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
Periods	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	14.06.17	Introduction: Introduction to Digital communication subject.	Unit I	Black Board		
2	15.06.17	Introduction to digital communication block diagram.		Black Board		
3	16.06.17	Advantages and disadvantages of DC.		Black Board		
4	17.06.17	Introduction to PCM sampling		Black Board		
5	20.06.17	Quantization process, waveform		Black Board		
6	22.06.17	Mean Square quantization error.		Black Board		
7	23.06.17	Problems, S/N derivation		Black Board		
8	24.06.17	Types of Quantization companding.		Black Board		
9	28.06.17	PCM Signaling rate bandwidth.		Black Board		
10	29.06.17	DPCM TX&RX		Black Board		
11	30.06.17	Delta modulation basic principle TX.		Black Board		
12	12.07.17	RX of DM, advantages and disadvantages.		Black Board		
13	13.07.17	Slope overload distortion condition, adaptive DM	Unit II	Black Board		
14	14.07.17	Noise in PCM and encoding formats.		Black Board		
15	15.07.17	Noise in DM problems.		Black Board		
16	19.07.17	Introduction to digital modulation		Black Board		
17	26.07.17	ASK modulator and demodulator, waveform.		Black Board		
18	27.07.17	BFSK TX,RX mathematical representation.		Black		

19	28.07.17	BPSK block diagram of TX&RX.		Board		
20	02.08.17	BPSK constellation diagram.		Black Board		
21	03.08.17	DPSK TX&RX block diagram.		Black Board		
22	04.08.17	DPSK, QPSK TX.		Black Board		
23	09.08.17	QPSK RX block diagram, working.		Black Board		
24	10.08.17	M-FM systems.		Black Board		
25	11.08.17	Base band signal receiver.		Black Board		
26	12.08.17	Probability of error.		Black Board		
27	16.08.17	Optimum filter pe calculation.		Black Board		
28	17.08.17	Matched filter pe calculation		Black Board		
29	18.08.17	Coherent reception, non-coherent FSK detection.	Unit III	Black Board		
30	19.08.17	Error probability calculation for ASK, QPSK, FSK.		Black Board		
31	23.08.17	Continued pe calculations.		Black Board		
32	24.08.17	Discrete messages, concept of amount of info		Black Board		
33	25.08.17	Properties entropy and property.		Black Board		
34	28.08.17	Information rate, mutual information.		Black Board		
35	30.09.17	Properties shannon's theorem, Shannon fano code.		Black Board		
36	02.09.17	Huffman code. efficiency calculation		Black Board		
37	13.09.17	Channel capacity of discrete and analog.		Black Board		
38	14.09.17	Capacity of Gaussian channel.		Black Board		
39	15.09.17	Problems.		Black Board		
40	16.09.17	Bandwidth-S/N trade off.		Black Board		

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41	20.09.17	Introduction matrix description of LB codes.	Unit IV	Black Board		
42	21.09.17	Problems		Black Board		
43	22.09.17	Error detection and correction capabilities of LB.		Black Board		
44	23.09.17	Hamming code and problems.		Black Board		
45	27.09.17	Binary cyclic codes.		Black Board		
46	28.09.17	Algebraic structure.		Black Board		
47	29.09.17	Encoding and syndrome calculation.		Black Board		
48	30.09.17	Problems.		Black Board		
49	01.10.17	Problems on syndrome polynomial.		Black Board		
50	04.10.17	Encoding of convolution codes.		Black Board		
51	05.10.17	Time domain approach, problems.	Unit V	Black Board		
52	06.10.17	Transform domain approach, problems.		Black Board		
53	07.10.17	Graphical approach, state transfer		Black Board		
54	11.10.17	Continued.		Black Board		
55	12.10.17	Decoding of convolution codes.		Black Board		
56	12.10.17	Viterbi algorithm.		Black Board		

Signature of Faculty

Signature of HOD/ECE

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