

LESSON PLAN

Period (tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1. 10-6-13	Introduction to Digital Communication	I	Black Board		
2. 11-6-13	Elements of digital Comm. Systems		"		
3. 12-6-13	Advantages of digital Comm. Systems, PCM		"		
4. 14-6-13	Sampling		"		
5. 15-6-13	Quantization		"		
6. 17-6-13	Coding		"		
7. 18-6-13	Quantization error		"		
8. 19-6-13	Companding in PCM systems		"		
9. 21-6-13	DPCM.		"		
10. 22-6-13	Problems		"		
11. 24-6-13	Introduction to DM & its Derivatives	II	"		
12. 25-6-13	Adaptive Delta Modulation		"		
13. 26-6-13	Comparison of PCM & DM Systems		"		
14. 28-6-13	Noise in PCM & Systems		"		
15. 29-6-13	Noise in DM Systems		"		
16. 1-7-13	Problems		"		
17. 2-7-13	Introduction to Digital Modulation techniques	III	"		
18. 3-7-13	ASK		"		
19. 5-7-13	FSK & PSK		"		
20. 6-7-13	DPSK		"		

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21. 8-7-13	DEPSK	III	Black Board		
22. 9-7-13	QPSK		"		
23. 10-7-13	M-ary PSK		"		
24. 12-7-13	M-ary ASK		"		
25. 14-7-13	M-ary FSK		"		
26. 16-7-13	Similarity of BPSK & QPSK.		"		
27. 17-7-13	Base band signal receiver, PE	IV	"		
28. 19-7-13	The optimum filter		"		
29. 22-7-13	Matched filter		"		
30. 23-7-13	Probability of error		"		
31. 24-7-13	Using matched filter		"		
32. 26-7-13	Coherent reception		"		
33. 28-7-13	Non-coherent detection of PSK		"		
34. 30-7-13	Calculation of error probability of ASK, QPSK		"		
35. 12-8-13	Calculation of error probability of ASK, QPSK		"		
36. 13-8-13	Introduction to Discrete multi-plex	V	"		
37. 14-8-13	Concept of amplitude modulation & its modulation Average modulation		"		
38. 16-8-13	Envelope of its parameter		"		
39. 19-8-13	Amplitude modulation 2-10		"		
40. 19-8-13	Modulated information & its properties		"		

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41. 20-5-13	Introduction to Source Coding & arithmetic	<u>VII</u>	Black Board		
42. 21-5-13	Shannon's Theorem		"		
43. 22-5-13	Shannon - Fano Coding		"		
44. 23-5-13	Huffman Coding		"		
45. 24-5-13	Efficiency Calculation		"		
46. 25-5-13	Channel Capacity of discrete & analog channels		"		
47. 26-5-13	Capacity of a Gaussian channel.		"		
48. 27-5-13	Band - SNR trade off.		"		
49. 3-6-13	Introduction to Linear Block Codes.	<u>VII</u>	"		
50. 4-6-13	Matrix description of Linear block Codes		"		
51. 6-6-13	Error detection & Correction Capabilities of linear block codes		"		
52. 9-6-13	Hamming Codes		"		
53. 10-6-13	Binary Cyclic Codes, algebraic structure		"		
54. 11-6-13	Encoding, Syndrome Calculation.		"		
55. 13-6-13	BCH Codes.		"		
56. 14-6-13	Introduction to Convolutional Codes	<u>VIII</u>	"		
57. 17-6-13	Encoding of Convolutional Codes		"		
58. 18-6-13	Time domain approach		"		
59. 24-6-13	Frequency domain		"		

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