LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	27/6	Introduction to Signals & Systems	1			
2	27/6	Classification of Signals	1			
3	29/6	Classification of Systems	1			
4	1/7	Analogy between Vectors and Signals	1			
5	4/7	Orthogonal Signal Space	1			
6	4/7	Signal approximation using orthogonal functions	1			
7	6/7	mean square error	1			
8	8/7	Closed or complete set of orthogonal functions	1			
9	11/7	Orthogonality in complex functions	1			
10	11/7	exponential signals & sinusoidal signals	1			
11	13/7	properties of elementary signals	1			
12	15/7	problems on elementary signals	1			
13	18/7	problems on classification of signals	1			
14	18/7	problems on classification of systems	1			
15	20/7	Problems on classification of systems	1			
16	22/7	Representation of fourier series	2			
17	1/8	continuous time periodic signals	2			
18	1/8	properties of fourier series	2			
19	3/8	Dirichlet conditions	2			
20	5/8	trigonometric fourier series	2			

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21	8/8	Exponential fourier series	2			
22	8/8	complex fourier spectrum	2			
23	10/8	Deriving fourier Transform from series	2			
24	12/8	fourier Transform of arbitrary signals	2			
25	17/8	fourier Transform of standard signals	2			
26	19/8	Properties of fourier Transform	2			
27	22/8	fourier Transform of periodic signals	2			
28	24/8	Problems on Trigonometric fourier series	2			
29	24/8	Problems on Exponential fourier series	2			
30	26/8	problems on fourier Transform	2			
31	29/8	Representation of Continuous time signals in terms of Impulses	3			
32	29/8	Linear time Invariant & time variant systems	3			
33	31/8	unit Impulse response & convolution integral	3			
34	2/9	Representation of LTI systems	3			
35	7/9	Transfer function of LTI systems	3			
36	9/9	filter characteristics of Linear systems	3			
37	14/7	Distortionless Transmission Through a system	3			
38	16/9	signal Band width, system Band width	3			
39	17/9	ideal LPF, HPF & BPF characteristics	3			
40	19/9	Problems on Distortion less Transmission system	3			

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
41	21/9	Problem on Convolution Integral	3			
42	23/9	Problem on Linear & Time Invariant system	3			
43	26/9	Problem on Linear & Time Invariant system	3			
44	26/9	Stability of Linear time invariant system	3			
45	28/9	Causality & Paley wiener Criterion for physical realization	3			
46	30/9	Concept of Correlation and autocorrelation in time domain and frequency domain	4			
47	3/10	Crosscorrelation and autocorrelation	4			
48	3/10	energy and power density spectrum	4			
49	5/10	properties of correlation and related problems	4			
50	7/10	Sampling Theorem	4			
51	10/10	Impulse sampling	4			
52	10/10	natural and flat top sampling	4			
53	12/10	Reconstruction of signals from its samples	4			
54	14/10	Problem on sampling theorem	4			
55	17/10	Problem on Sampling Theorem	4			
56	17/10	Effect of under-sampling - Aliasing	4			
57	19/10	problems on Aliasing	4			
58	21/10	Review of Laplace Transform	5			
59	24/10	Review of Laplace Transform	5			
60	24/10	Laplace Transform of typical signals	5			

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
61	26/10	Properties of Laplace Transform.	5			
62	28/10	Relation between Laplace Transform and Fourier Transform	5			
63	31/10	Region of Convergence (Roc)	5			
64	31/10	Constraints of Roc Inverse Laplace Transform	5			
65	2/11	Introduction to Z-transform	5			
66	4/11	Problems in Z-Transform	5			080/07