

LESSON PLAN

Period (tentative)	Date	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	04/11/13	Signals - Introduction I	CR			
		Classification of Signals				
2	05/11/13	Standard form of signals				
3	07/11/13	Analogy between vectors & signals				
		Orthogonal space				
4	08/11/13	Signal approximation				
		Mean square error				
5	09/11/13	Closed set of orthogonal functions				
6	11/11/13	Orthogonality in complex function				
		Exponential and				
7,8	12/11/13	Sinusoidal signals				
	13/11/13	Impulse, step, stop				
		Signal function				
9	16/11/13	Introduction to Fourier Series				
		Fourier Series				
10	18/11/13	Representation of Fourier series				

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		CT Periodic signals	CR			
11	19/11/13	Properties of Fourier Series				
12	21/11/13	Dirichlet's Condition				
13	22/11/13	Trigonometric Fourier series				
		Parseval's				
14,15	23/11/13	Bandwidth in Fourier series				
	25/11/13	Half wave rectifier				
16	26/11/13	Exponential Fourier series representation				
17	28/11/13	Example of periodic				
18	29/11/13	Complex Fourier spectrum				
19	30/11/13	Introduction to Fourier Transform				
		Deriving F.T from Fourier Series				
20	02/12/13	F.T of arbitrary signal, inverse Fourier Transform				

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21	5/12/15	Fourier transform of standard signals		CL		
22	5/12/15	F.T of periodic signals		"		
23	6/12/15	Properties of fourier transform		"		
24	7/12/15	Fourier transform				
25	7/12/15	F.T of impulse function and signum function.		"		
		Introduction to Hilbert transform				
26	10/12/15	Signal transmissibility	IV	"		
27		through linear system				
28	12/12/15	Linear system, circular response, response of a linear system		"		
29	13/12/15	LTI & LTV system Transfer function		"		
30	14/12/15	Filter characteristics		"		
31	16/12/15	Distortionless transmission		"		

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		through a system		CL		
31	17/12/15	Signal band width system band width		"		
32	19/12/15	Ideal LPE, HPH & RPF characteristics		"		
33	20/12/15	Bandwidth		"		
34	21/12/15	Bandwidth		"		
35	30/12/15	Concept of Convolution in time domain & frequency domain	V	"		
36	31/12/15	Spectral representation		"		
37	02/01/16	Cross correlation & auto correlation		"		
38	03/01/16	Properties		"		
39	04/01/16	Energy density spectrum		"		
40	06/01/16	Parseval's theorem		"		
41	06/01/16	Power density spectrum		"		
42	07/01/16	Relation between convolution & correlation		"		

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42	7/01/14	Detection of periodic signals in presence of noise by Correlation		CL		
43	10/01/14	Extracting of signal from noise filtering		"		
44	11/01/14	Sampling theorem Proof for band-limited signals	VII	"		
45	17/01/14	Natural & Flat top sampling		"		
46	18/01/14	Reconstruction of signal from its samples		"		
47	20/01/14	Aliasing effect		"		
48	21/01/14	Problems on Aliasing		"		
49	23/01/14	Introduction to band pass filtering		"		
50	24/01/14	Laplace Transform introduction	VII	"		
51	25/01/14	Partial fraction expansion		"		
52	27/01/14	Inverse Laplace Transform		"		
53	28/01/14					

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
54	30/01/14	Concept of ROC		CL		
55	31/01/14	Properties of Laplace transform		"		
56	01/02/14					
57	03/02/14	Relation between F.T and L.T		"		
58	04/02/14	Laplace transform of certain signals		"		
59	06/02/14	Laplace transform using waveforms		"		
60	07/02/14	System S/D		"		
61	09/02/14					
62	10/02/14	Introduction to Z-transform	VIII	"		
		Fundamental difference between CT & DT signal				
63	10/02/14	Periodicity of discrete time using complex exponential signal		"		
64	13/02/14	Concept of Z-transform		"		
65	14/02/14	Properties		"		
66	15/02/14	Relation between		"		
67	17/02/14	F.T, L.T & Z.T, ROC		"		
68	19/02/14	Inverse Z-transform		"		
69	21/02/14					
70	22/02/14					

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