

(A.Y. 2015-16) I - Sem

L I CA

(In - ECE - C)

## LESSON PLAN

Period	Date (Tentative)	Unit - Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	20-7-15	Introduction to Linear ICA	I	Class Room Black board & slide		
2	20-7-15	op-amp internal block diagram	I	"		
3	23-7-15	Differential amplifiers & its types	I	"		
4	24-7-15	DC analysis of four diff amp configurations	I	"		
5	27-7-15	AC analysis of dual i/c, balanced type	I	"		
6	27-7-15	AC analysis of dual i/c, unbalanced type	I	"		
7	30-7-15	AC analysis of single i/c, balanced type	I	"		
8	31-7-15	AC analysis of single i/c, unbalanced type	I	"		
9	3-8-15	Concise diff amplifiers	I	"		
10	3-8-15	Level Translator	I	"		
11	6-8-15	Problems on diff amp	I	"		
12	7-8-15	Unit - II:	I			
13	10-8-15	IC types & classification of ICs	II	"		
14	10-8-15	IC Packages & Temperature ranges	II	"		
15	13-8-15	Op-amp block diagram review	II	"		
16	14-8-15	Characteristics of Ideal op-amp	II	"		
		Practical op-amp specifications	II	"		
17, 18	17-8-15 3rd & 4th	DC characteristics	II	"		
19	20-8-15	AC characteristics	II	"		
20	21-8-15	"				

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21	24-8-15	Op-amp Primaries and its measurement	<u>II</u>	CR		
22,23	21-8-15 2 classes	Frequency response techniques	<u>II</u>	"		
24	3-9-15	FET input op-amp	<u>II</u>	"		
		<u>Unit - III</u> Linear applications				
25	4-9-15	Inverting & non-inverting amplifiers	<u>III</u>	"		
26	7-9-15	Summing, scaling & Avg amplifiers	<u>III</u>	"		
27	7-9-15	Integrator	<u>III</u>	"		
28	10-9-15	Differentiator	<u>III</u>	"		
		Difference amplifier	<u>III</u>	"		
29	11-9-15	Instrumentation amplifier, Acamp	<u>III</u>	"		
30,31	14-9-15 2 classes	uA741 & 555 comparators & buffers	<u>III</u>	"		
32	17-9-15	Multivibrators	<u>III</u>	"		
33	18-9-15	Triangular & square wave generator	<u>III</u>	"		
34	21-9-15	Log & anti-log amplifier	<u>III</u>	"		
35	21-9-15	Precision rectifier		"		
		<u>Unit - IV</u> Active filters:				
36	24-9-15	Butterworth 1st order LFF & HFF	<u>IV</u>	"		
37	28-9-15	2nd order LFF	<u>IV</u>	"		
38	28-9-15	2nd order HFF	<u>IV</u>	"		
39, 40	5-10-15 2 classes	Band pass & Band reject filter	<u>IV</u>	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
41	8-10-15	All pass filter	IV	CR		
42	9-10-15	D to A converter Basic DAC technique	IV	"		
43	12-10-15	R-2R DAC ladder, Inverse ladder	IV	"		
44	12-10-15	A/D converter Successive approx	IV	"		
45	15-10-15	Parallel comparator type A/D	IV	"		
46	16-10-15	Counter type A/D	IV	"		
47	19-10-15	Dual slope A/D	IV	"		
48	19-10-15	Specification of A/D & DAC	IV	"		
		<u>Unit - V :</u>	V			
49	22-10-15	555 timer IC functional diagram	V	"		
50	23-10-15	monostable multivibrator using 555	V	"		
51, 52	26-10-15 26-10-15	Astable multivibrator using 555 & applications	V	"		
53	29-10-15	Schmitt trigger	V	"		
54	30-10-15	Block diagram & principle of PLL	V	"		
55	2-11-15	Application of PLL	V	"		
56	2-11-15	"				
57	5-11-15	Application of VCO (SSC)	V	"		
58	6-11-15	Four quadrant multiplier balanced modulator	V	"		
59, 60	9-11-15 26-11-15	IC 1496, applications of analog multiplier	V	"		
61	10-11-15	Sample & hold circuit	V	"		

Bates