LINEAR IC APPLICATIONS
LESSON PLAN

Periods	Date (Tentative)	Topic	Unit No	Teaching Methodology	Remarks	Co
1	20.07.15	**Introduction:** Introduction to integrated circuits, Differential Amplifier.	Unit I	Chalk & Board		
2	21.07.15	DC and AC analysis of dual input and balanced output configuration		Chalk & Board		
4	22.07.15	Properties of other differential amplifier configuration (dual Input unbalanced output)		Chalk & Board		
5	22.07.15	Single ended input – balanced/unbalanced output		Chalk & Board		
7	27.07.15	DC coupling and cascade differential amplifier stages		Chalk & Board		
9	28.07.15	Level translator,		Chalk & Board		
10	10.08.15	Characteristics of OP–amps	Unit II	PPT		
11	11.08.15	Integrated circuits – types, Classification,		PPT		
12	12.08.15	Package types and temperature ranges, Op-amp block diagram		PPT		
13	12.08.15	ideal and practical Op-amp specifications		PPT		
14	17.08.15	DC characteristics,		Chalk & Board		
15	18.08.15	AC characteristics		Chalk & Board		
16	19.08.15	741 op-amp & its features		PPT		
17	19.08.15	FET input Op-amps		Chalk & Board		
18	24.08.15	Op-amp parameters and measurement		Chalk & Board		
19	25.08.15	Frequency compensation technique		Chalk & Board		
20	26.08.15	**Linear applications of Op-amps:** Inverting and non-inverting amplifier		Chalk & Board		
21	26.08.15	Integrator		Chalk & Board		

22	31.08.15	differentiator,	Unit III	Chalk & Board	
23	01.09.15	difference amplifier		Chalk & Board	
24	02.09.15	Instrumentation amplifier		Chalk & Board	
25	03.09.15	AC amplifier		Chalk & Board	
26	03.09.15	V to I, I to V converters, buffers		Chalk & Board	
27	07.09.15	**Non–linear applications of Op–amps:**		Chalk & Board	
28	08.09.15	Non-linear function generation		Chalk & Board	
29	09.09.15	Comparators		Chalk & Board	
30	09.09.15	Multivibrators		Chalk & Board	
31	14.09.15	log and anti log amplifiers		Chalk & Board	
32	15.09.15	Precision rectifiers.		Chalk & Board	
33	16.09.15	**Active Filters:** Introduction		Chalk & Board	
34	16.09.15	Butterworth filters – 1st order, 2nd order LPF, HPF filters		Chalk & Board	
35	21.09.15	Band pass, Band reject and all pass filters.		Chalk & Board	
36	22.09.15	**D to A and A to D converters**		Chalk & Board	
37	23.09.15	: Introduction basic DAC techniques		Chalk & Board	
38	23.09.15	Weighted resistor DAC.		Chalk & Board	
39	28.09.15	R-2R ladder DAC		Chalk & Board	
40	29.09.15	inverted R-2R DAC,		Chalk & Board	
41	30.09.15	Different types of ADCs: parallel comparator, counter type		Chalk & Board	
42	05.10.15	Successive approximation	Unit IV	Chalk & Board	
43	06.10.15	dual slope ADCs		Chalk & Board	
44	07.10.15	DAC and ADC Specifications,		Chalk & Board	
45	07.10.15	Specifications of ADC 574, DAC 1408		Chalk & Board	
46	12.10.15	**Timers and Phase Locked Loops**		PPT	
47	13.10.15	Introduction to 555 timer, functional diagram		Chalk & Board	
48	14.10.15	Monostable and astable operations and applications		Chalk & Board	
49	14.10.15	Schmitt Trigger.		Chalk & Board	

50	19.10.15	PLL - introductior , block schematic	Unit V	Chalk & Board	
51	20.10.15	Principles and description of individual blocks		Chalk & Board	
52	21.10.15	565 PLL		Chalk & Board	
53	21.10.15	Applications of PLL – frequency multiplication,		Chalk & Board	
54	26.10.15	Frequency translation		Chalk & Board	
55	27.10.15	AM, FM and FSK demodulators		Chalk & Board	
56	28.10.15	Applications of VCO (566).		Chalk & Board	
57	28.10.15	**Analog Multipliers and Modulators:** Four quadrant multiplier		Chalk & Board	
58	02.11.15	balanced modulator, IC1496		Chalk & Board	
59	03.11.15	applications of analog switches and multiplexers		Chalk & Board	
60	04.11.15	sample and hold amplifiers		Chalk & Board	
				Chalk & Board	

Signature of the faculty

Signature of HOD/ECE