

## LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
<u>Unit-I</u> 1		General Consideration	I	Board		
2		one stage opamp		& ppt		
		two stage opamp				
3		opamp gain, slew rate				
4		systematic offset voltage				
		f/b & op-amp				
5		compensation				
		linear settling time				
6		compensating two stage op-amp				
7		lead compensation				
8		compensation independent process & temperature				
<u>Unit-II</u> 9		Sample & Hold, BJT	II	Board & ppt		
10		current mirror ckt				
11		cascode & Wilson current mirror				
12		Common Source Amp				
13		Common gate Amp				
14		Source follower				

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15		Types of power				
16		Noise in op-amp				
17		Noise in "PS"				
		& Noise Bandwidth				
<u>Unit 20</u> 18		Advanced current mirror	20	Board		
19		folded cascode op-amp		PPT		
20		Current mirror op-amp				
21		Linear settling time				
		avalanche				
22		fully diff op-amp				
23		Common mode flicker				
24		Current f/b op-amp				
<u>Unit 25</u> 25		PLL Concept	25	Board		
26		locked condition		PPT		
27		phase detector				
28		VCO				
29		Case Study:				
		560B monolithic PLL				
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<u>Unit 2</u>		Basic building blocks	2	Board & PPT		
		op-amp capacitors				
		Non overlapping clock				
		Basic operation & Analysis				
		Resistive equivalence				
		of a switched capacitor				
		Parametric Semisubtractor				
		Parametric Transitive Integrator				
		sig flow graph analysis				
		first order filters				
		Switch sharing				
		fully diff. filters				
		Charge injections				
		Switched Capacitor gain ckt				
		Capa ckt ckt				
		Prasert table gain ckt				
		other switched Capacitor ckt				
		full wave rectifier				
		Peak detector				
		Summational circuit				

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Unit 1		Comparators	1	Board & ppt		
		Charge injection error				
		latched comparators				
		D/A converter:				
		Decade based D/A converter				
		Resistor String				
		folded resistor				
		Binary scale converter				
		Thermometer code converter				
		Current mode D/A converter				
		A/D converter:				
		Integrating Converter				
		Successive approximation method				
		DAC based successive converter				
		Flash converter				
		time interleaved A/D converter				