

# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	4/10/17	Energy bands in solid & carrier conen	I			
2	10/10/17	Unipolar/ Extrinsic T semiconductor				
3	10/10/17	Carrier transport -transposition	I			
4	11/10/17	drift & diffusion currents	I			
5	13/10/17	Velocity saturation	I			
6	17/10/17	Device Equation	I			
7	17/10/17	Poisson's equation	I			
8	17/10/17	Current density equations	I			
9	20/10/17	conductivity equation	I			
10	24/10/17	continuou..	I			

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11	24/10/17	P-N junction	II			
12	25/10/17	Built-in potential	II			
13	27/10/17	Diode correct operation	II			
14	31/10/17	V-I Characteristics	II			
15	31/10/17	Temperature dependence	II			
16	01/11/17	Diode leakage currents	II			
17	3/11/17	Schottky characteristics	II			
18	7/11/17	excess charge carrierrs	II			
19	9/11/17	Diffusion capacitance	II			
20	9/11/17	problems	II			

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21	10/11/17	MOS capacitor	III			
22	11/11/17	Surface potential				
23	14/11/17	Electric field	III			
24	15/11/17	Potential				
25	17/11/17	Charge distribution in silicon	III			
26	21/11/17	Capacitances in MOS structure	III			
27	21/11/17	LF, HF, C-V Characteristics of poly silicon MOS capacitor	III			
28	22/11/17	Depletion effect	III			
29	24/11/17	Charge on surface	III			
		Effect of interface traps				
30	27/11/17	Surface generation	III			
31	5/12/17	Recombination	III			
32	6/12/17	PNP + Transistor	IV			
33	8/12/17	NPN VI	IV			
34	12/12/17	PNP + Transistor	IV			
35	12/12/17	BJT DEVICE	IV			
36	13/12/17	Heterojunction	IV			
37	15/12/17	Heterostructure	IV			
38	19/12/17	EBEYAS - MOOL Model	IV			
39	19/12/17	Postscript & Solution	IV			
40	20/12/17	MOSFET basics	V			

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31	5/12/17	NPN Transistor	IV			
32	6/12/17	PNP + Transistor	IV			
33	8/12/17	NPN VI	IV			
34	12/12/17	PNP + Transistor	IV			
35	12/12/17	BJT DEVICE	IV			
36	13/12/17	Heterojunction	IV			
37	15/12/17	Heterostructure	IV			
38	19/12/17	EBEYAS - MOOL Model	IV			
39	19/12/17	Postscript & Solution	IV			
40	20/12/17	MOSFET basics	V			

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks Upon Review
41	22/12/17	DEPLETION - FIRING	V		
42	24/12/17	OPERATION			
43	24/12/17	ENHANCEMENT MODE OPERATION	V		
44	25/12/17	DEPLETION - VTR CHAR-	V		
45	29/12/17	ENHANCEMENT - HOPE - CHAR Effects	V		
46	31/12/17	velocity saturation	V		
47	2/1/18	Channel length Modulation	V		
48	3/1/18	source-drain series decoupling	V		
49	5/1/18	problem & solution.	V		
50	9/1/18	DYNAMIC MODEL Basics.	V		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
51	9/1/18	KEYER	V			
52	10/1/18	CHARGE BASED CAPACITANCE MODEL	V			
53	11/1/18	BLILER Long channel Charge Model	V			
54	12/1/18	Channel charge MODEL	V			
55	23/1/18	Lemaitre of Velocity - static MODEL	V			
56	24/1/18	Small signal MODEL	V			
57	24/1/18	Parameter Evaluation	V			
58	25/1/18	Practical - saturation	V			
59	26/1/18	Practical - saturation	V			

for  
note