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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
(1)	8/4/13	Introduction	1	BB		
(2)	9/4/13	electron ballistic force on charged particles in electric field	1	"		
(3)	11/4/13	constant electric field and problem solving	1	"		
(4)	12/4/13	Relationship between field intensity and potential	1	"		
(5)	15/4/13	two dimensional motion problem solving	1	"		
(6)	15/4/13	Electrostatic deflection in CRT force on magnetic field	1	"		
(7)	18/4/13	CRO Explanation motion in magnetic field	1	"		
(8)	20/4/13	M-deflection in CRT magnetic focusing	1	"		
(9)	22/4/13	parallel & perpendicular magnetic field motion solving	1	"		
(10)	24/4/13	Insulators semiconductors classification band theory	2	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
11	23/11/13	Mobility, conductivity, problem solving	2	BB		
12	23/11/13	Electron/hole concentration [illegible]	2	"		
13	23/11/13	Problem solving				
14	24/11/13	Drift & diffusion currents, problem solving	2	"		
15	24/11/13	Generation & recombination of charges	2	"		
		problem solving				
16	31/11/13	continuity equation	2	"		
17	28/11/13	Hall effect, injected minority [illegible]	2	"		
18	[illegible]/11/13	Fermi level, fermi-dirac [illegible]	2	"		
		[illegible] intrinsic & extrinsic semi				
19	6/11/13	open circuit PN junction, forward [illegible]	3	"		
		problem solving				
20	8/11/13	current components in PN diode, current equation	3	"		
21	8/11/13	[illegible] temp. diff	3	"		
22		problem solving	3	"		
23	9/11/13	step graded, diffusion, diode resistance	3	"		
24	11/11/13	energy band dia., diffusion capacitance	3	"		
25	13/11/13	Zener diodes, tunnel diode	3	"		
26	13/11/13	Varactor, PIN, LED, Photodiode	3	"		
		problem solving				

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LESSON PLAN

Period	Date (Schedule)	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
27	14/4/13	Pro de application rectifiers half wave ripple factor problems	4	BB		
28	16/4/13	full wave with centre tap transformer harmonic components & problems	4	"		
29	18/4/13	Rectifier with inductive & capacitive filter & problems	4	"		
30	20/4/13	L & π multiple section filters & problems	4	"		
31	20/4/13	multiple π comparison of filters	4	"		
32	22/4/13	Introduction to reg. Zener regulators	4	"		
33	23/4/13	series & shunt regulators	4	"		
34	25/4/13	problem solving	4	"		
35	27/4/13	Junction transistors current components	5	"		
36	29/4/13	problem solving	5	"		
37	30/4/13	Transistor as amplifier configuration CE, CB, CC	5	"		

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
38	10/12/13	V-I characteristics CE, CC, CB,	5	BB		
39	1/1/14	Problem solving	5	"		
40	3/1/14	Analytic expression	5	"		
		For transistor characteristics				
41	3/1/14	Punch through & Reach through	5	"		
		Mechanisms V. Problem solving				
42	4/1/14	Phototransistor & junction	5	"		
		voltage, Problem solving				
43	6/1/14	Field effect transistor	6	"		
44	8/1/14	Importance BJT disadvantage				
44	10/1/14	JFET characteristics (output and)	6	"		
		explanation				
45	10/1/14	Small signal model of JFET	6	"		
		Current & voltage gain, input				
		resistance derivation				
46	11/1/14	Problem solving	6	"		
47	13/1/14	MOSFET comparison	6	"		
		MOSFET, JFET, MOS characteristics				
48	13/1/14	Enhancement & depletion mode	6	"		
		MOSFET explanation & problems				

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	[illegible]
49	18/1/14	SCR thermal [illegible] Explanation	6	BQ		
50	20/1/14	Problem solving & SCR thermal [illegible]	6	"		
51	22/1/14	Biasing, types, Transistor biasing.	7	"		
52	24/1/14	Thermal stabilization, operating point	7	"		
53	24/1/14	stability analysis	7	"		
54	25/1/14	collector to base bias & self bias, problem solving	7	"		
55	27/1/14	stabilization against Vbe, β for self bias ckt	7	"		
56	29/1/14	Bias compensation, Thermistor & sensistor compensation	7	"		
57	31/1/14	problem solving				
58	1/2/14	Compensation against Vbe & Ico, Thermal runaway, thermal stability	7	"		
59	8/2/14	Two port n/w [illegible]	8	"		

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LESSON PLAN

Period	Date (Tentative)	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
60	5/2/14	Determination of parameters V_T, I_D, R_i, R_D	8	BB		
61	7/2/14	Measurement of h-parameters	8	"		
62	7/2/14	problem solving	8	"		
63	8/2/14	Conversion formula for three transistor Config's. CE, CB, CC				
64	10/2/14	Transistor amplifier analysis using h-parameters problem solving	8	"		
65	12/2/14	Comparision of transistor amplifier configuration	8	"		
66	14/2/14	problem solving	8	"		
67	15/2/14	problem solving				
68	17/2/14	solving GATE questions				
69	19/2/14	MIDTERM				
70	21/2/14	MIDTERM				

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