

LESSON PLAN

Period (tentative)	Date	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	18/3/14	Introduction to part B/analysis	I	CE		
(2,3)	19/3	Simplified CE	"	"		
4	20/3	hybrid model	"	"		
5	21/3	Simplified calculating for CE & CS amplifiers	"	"		
6	22/3	Problems on simplified models	"	"		
(7,8)	23/3	CE amplifier circuit emitter resistance	"	"		
9	24/3	Problems	"	"		
10	25/3	Common emitter Miller theorem	"	"		
11	26/3	FET small signal model	"	"		
(12,13)	27/3	CS & CD amplifiers	"	"		
14	28/3	FET as a voltage variable resistor	"	"		
15	29/3	FET biasing	"	"		
16	30/3	Amplifier - classification II	"	"		
17	31/3	Concept of feedback	"	"		

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18	01/04	Characteristics of -ve feedback	II	CE		
19	02/04	Effect of feedback on R_i & R_o	"	"		
(20)	03/04	Analysis of feed back amplifiers	"	"		
21	04/04	Problems on transfer gain	"	"		
22	05/04	voltage series voltage divider	"	"		
23	06/04	Current series current divider	"	"		
(24,25)	07/04	Analysis of the above type amplifiers	"	"		
26	08/04	Model Problems on R_i & R_o of different types of feedback amplifiers	"	"		
27	09/04	Condition for oscillation II	"	"		
(28,29)	10/04	Concept and classification	"	"		
30	11/04	RC phase shift oscillator	"	"		
31	12/04	LC oscillator	"	"		
(32,33)	13/04	LC oscillator	"	"		
34	14/04	Hartley and Colpitts	"	"		
35	15/04	Oscillator, model problem	"	"		
36	16/04	Oscillator, model problem	"	"		
37	17/04	Oscillator, model problem	"	"		
38	18/04	Oscillator, model problem	"	"		
39	19/04	Oscillator, model problem	"	"		
40	20/04	Oscillator, model problem	"	"		
41	21/04	Oscillator, model problem	"	"		
42	22/04	Oscillator, model problem	"	"		
43	23/04	Oscillator, model problem	"	"		
44	24/04	Oscillator, model problem	"	"		
45	25/04	Oscillator, model problem	"	"		
46	26/04	Oscillator, model problem	"	"		
47	27/04	Oscillator, model problem	"	"		
48	28/04	Oscillator, model problem	"	"		
49	29/04	Oscillator, model problem	"	"		
50	30/04	Oscillator, model problem	"	"		
51	01/05	Oscillator, model problem	"	"		
52	02/05	Oscillator, model problem	"	"		
53	03/05	Oscillator, model problem	"	"		
54	04/05	Oscillator, model problem	"	"		
55	05/05	Oscillator, model problem	"	"		
56	06/05	Oscillator, model problem	"	"		
57	07/05	Oscillator, model problem	"	"		
58	08/05	Oscillator, model problem	"	"		
59	09/05	Oscillator, model problem	"	"		
60	10/05	Oscillator, model problem	"	"		
61	11/05	Oscillator, model problem	"	"		
62	12/05	Oscillator, model problem	"	"		
63	13/05	Oscillator, model problem	"	"		
64	14/05	Oscillator, model problem	"	"		
65	15/05	Oscillator, model problem	"	"		
66	16/05	Oscillator, model problem	"	"		
67	17/05	Oscillator, model problem	"	"		
68	18/05	Oscillator, model problem	"	"		
69	19/05	Oscillator, model problem	"	"		
70	20/05	Oscillator, model problem	"	"		
71	21/05	Oscillator, model problem	"	"		
72	22/05	Oscillator, model problem	"	"		
73	23/05	Oscillator, model problem	"	"		
74	24/05	Oscillator, model problem	"	"		
75	25/05	Oscillator, model problem	"	"		
76	26/05	Oscillator, model problem	"	"		
77	27/05	Oscillator, model problem	"	"		
78	28/05	Oscillator, model problem	"	"		
79	29/05	Oscillator, model problem	"	"		
80	30/05	Oscillator, model problem	"	"		
81	31/05	Oscillator, model problem	"	"		
82	01/06	Oscillator, model problem	"	"		
83	02/06	Oscillator, model problem	"	"		
84	03/06	Oscillator, model problem	"	"		
85	04/06	Oscillator, model problem	"	"		
86	05/06	Oscillator, model problem	"	"		
87	06/06	Oscillator, model problem	"	"		
88	07/06	Oscillator, model problem	"	"		
89	08/06	Oscillator, model problem	"	"		
90	09/06	Oscillator, model problem	"	"		
91	10/06	Oscillator, model problem	"	"		
92	11/06	Oscillator, model problem	"	"		
93	12/06	Oscillator, model problem	"	"		
94	13/06	Oscillator, model problem	"	"		
95	14/06	Oscillator, model problem	"	"		
96	15/06	Oscillator, model problem	"	"		
97	16/06	Oscillator, model problem	"	"		
98	17/06	Oscillator, model problem	"	"		
99	18/06	Oscillator, model problem	"	"		
100	19/06	Oscillator, model problem	"	"		

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Period (tentative)	Date	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
		Amplitude stability of Oscillator		CE		
36	20/06	Introduction to Multistage amplifiers	IV	"		
(37,38,39,40)	21/06	Cascading Transistor Darlington pair	"	"		
39	22/06	Cascade amplifier	"	"		
40	23/06	Frequency response	"	"		
41	24/06	Analysis of RC coupling, Direct Coupling & Transformer Coupling	"	"		
(42,43,44)	25/06	Difference amplifier	"	"		
44	26/06	2-stage RC coupled JFET amplifier	"	"		
(45,46,47,48)	27/06	Transistor at high frequency	V	"		
47	28/06	Hybrid- π C-E-T _r model	"	"		
48	29/06	Hybrid- π Conductance Hybrid- π Capacitance	"	"		

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Period (tentative)	Date	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
49	10/06	Validity of hybrid model	V	CE		
(50,51)	11/06	Variation of hybrid parameters CE short circuit gain	"	"		
		Current gain with resistive load	"	"		
52	12/06	Single stage CE T _r amplifier amplifier	"	"		
53	13/06	Common emitter amplifier Emitter follower at high frequency	"	"		
(54,55,56)	14/06	Power amplifier - Class A, B, AB, C	VI	"		
57	15/06	Class A power amplifier	"	"		
58	16/06	Second harmonic distortion Harmonic order distortion	"	"		
59	17/06	Transformer coupled Audio power amplifier	"	"		
(60,61)	18/06	Push-pull amplifier	"	"		
62	19/06	Class B amplifier	"	"		
63	20/06	Class D, class S amplifiers	"	"		
64	21/06	MOSFET power amplifier	"	"		
(65,66,67)	22/06	Thermal stability and Heat sink	"	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
(67)	03/02	Introduction to <u>VII</u>	CE			
		tuned amplifier				
(68)	04/02	Q-factor, <u>Problems</u>	2			
(69)	05/02	Small signal tuned amplifier.	4			
(70)	06/02	Single tuned and double tuned amplifier.	4			
(71)	10/02	Effect of cascading single tuned amplifier & double tuned amplifier.	4			
(72)	11/02	Staggered tuned amplifier.	4			
(73)	15/02	Stability of tuned amplifier.	4			
(74)	16/02	Introduction to <u>VIII</u>	4			
		Voltage regulation	4			
(77)	19/02	Characteristics.	4			
(78)	20/02	Types of Regulation	4			
(79)	21/02	Senses Voltage	4			
(80)	22/02	Regulation & Shunt	4			

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
		Voltage regulation <u>VIII</u>	CE			
(81)	25/02	Over voltage protection	4			
(82)	26/02	Model Problems	4			
(83)	29/02	IC Regulation	4			