



P.B.SIDDHARTHA COLLEGE OF ARTS & SCIENCE: VIJAYAWADA – 520010

Teaching Plan 2010 – 11 Winter Semester

DEPARTMENT OF ELECTRONICS

TITLE: ANALOG & DIGITAL CIRCUITS

Class Work Commences: / /2010

Last Instructional Day: / /2010

Class: II B.Sc (MECs)

Course Code: ELE 054

Lecturer: K.SAMBA SIVA RAO

S.N O	SUB TOPICS	DATE PROPOSED	DATE COMPLETED	ASSIGNMENT	SEMINAR
1	Introduction on Amplifiers	10-6-09			
2	Basic op-amp and 44401239—	11-6-09			
3	Parameters of transistor	12-6-09			
4	Re-model of Common emitter	13-6-09			
5	Re-model of CB,CC	15-6-09			
6	Hybrid Model Parameters	16-6-09		Assignment-1	
7	Graphical determination of hybrid parameters	18-6-09			
8	Problems	19-6-09			
9	Common Emitter Fixed bias configuration	20-6-09			
10	Voltage-divider configuration	22-6-09			
11	Common Emitter follower configuration	23-6-09			
12	Common base configuration	25-6-09			
13	Complete hybrid model	26-6-09			
14	Problems	27-6-09			
15	J-FET small signal analysis	29-6-09			
16	J-FET fixed bias & self bias	30-6-09			
17	J-FET Voltage-	2-7-09			

	divider configuration				
18	Source-follower configuration	3-7-09			Seminar-1
19	MOS- FET configuration	4-7-09		Assignment-2	
20	Common –gate configuration	6-7-09			
21	Problems	7-7-09			
22	B.J.T &F.E.T large signal Amp	9-7-09			
23	Logarithms and décibels	10-7-09			
24	General frequency considérations	11-7-09			
25	Low frequency analysis-Bode plot	13-7-09			
26	Low frequency response-B.J.T	14-7-09			
27	Low frequency response –F.E.T	14-7-09		Assignment-3	
28	Miller Effect capacitance	16-7-09			
29	High frequency Response-B.J.T	17-7-09			
30	Multi stage frequency Effects	18-7-09			Seminar-2
31	Darlington Connection	20-7-09			
32	Differential Amplifier circuit	21-7-09			
		I-Internal	22-7-09	25-7-09	
33	Introduction on feedback	27-7-09			
34	Types of Feedback	28-7-09			
35	Voltage and current feedback	30-7-09			
36	Practical Feedback circuits	31-7-09			
37	Feedback Amplifier-Phase&frequency	1-8-09			
38	Introduction on Oscillator operation	3-8-09		Assignment-4	

39	Phase-shift Oscillator	4-8-09			
40	Wein-bridge Oscillator	6-8-09			Seminar-3
41	Tuned Oscillator circuit	7-8-09			
42	Hartley Oscillator	8-8-09			
43	Colpits Oscillator	10-8-09			
44	Crystal Oscillator	11-8-09			
45	Uni-junction Oscillator	17-8-09		Assignment-5	
46	Problems	18-8-09			
47	problems	20-8-09			
48	Introduction on Amplifiers	21-8-09			
49	Amplifiers types	22-8-09			
50	Transformer coupled Class-A Amplifier	24-8-09			
51	Class-A Amplifier	25-8-09			
52	Class-B Amplifier	27-8-09			
53	Class-B Amplifier circuits	28-8-09			
54	Amplifier distortion	29-8-09			Seminar-4
55	Power transistor	31-8-09			
56	Heat sinking	1-9-09			
57	Class-c & Class-D Amplifier	03-09-09		Assignment-6	
58	Series fed Class-A Amplifier	04-09-09			
59	Problems	05-09-09			
		II-INTERNAL	07-09-09	10-09-09	



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Teaching Plan 2010 – 11 Winter Semester

DEPARTMENT OF ELECTRONICS

TITLE: OPTICAL FIBER COMMUNICATIONS & APPLICATIONS

Class Work Commences: / /2010

Last Instructional Day: / /2010

Class: II B.Sc (MECs)

Course Code: ELE 126

Lecturer: K.SAMBA SIVA RAO

S.NO	SUB TOPICS	DATE PROPOSED	DATE COMPLETED	ASSIGNMENT	SEMINAR
1	Introduction on 8085 Architecture				
2	Organization of a typical Microcomputer				
3	Memory, Input/Output				
4	Large computer to a single chip Micro controller				
5	Block diagram of 8085MP				
6	Block diagram of 8085MP				
7	Pin description				
8	Instruction set				
9	Instruction set			Assignment-1	
10	Instruction format				
11	Addressing modes				
12	Introduction on 8086 Architecture				
13	CPU Archt				
14	Internal operation				
15	Machine Language				
16	Instructions				Seminar-1

17	Instruction Execution timing				
18	Data transfer INS(8085)				
19	Arithmetic In			Assignment-2	
20	Branch Instruction				
21	Loop INS				
22	Flag Manipulation				
23	Logical Instruction				
24	Shift & Rotate Instruction				
25	Data transfer instruction (8086)				
26	Arithmetic Instruction			Assignment-3	
27	Logical Instruction				
28	Shift and Rotate Instruction				
29	Programmes				Seminar-2
30	Programmes				
		I-INTERNAL			
31	Introduction on Modular programming				
32	Linking and Relocation				
33	Stack procedures				
34	Interrupts				
35	Interrupts routine				
36	System bus structure				
37	Basic 8086 configuration				
38	Minimum mode				
39	Maximum mode			Assignment-4	
40	Interrupt priority				

	Management				
41	Introduction on I/O Interface				
42	Serial communication				
43	Parallel Communication			Assignment-5	
44	Programmable timers				
45	Keyboard and display				
46	DMA controllers				Seminar-3
47	DMA controllers				
48	Intel 80286 microprocessor				
49	Intel 80286 microprocessor				
50	Intel 80386 microprocessor				
51	Intel 80386 Microprocessor			Assignment-6	
52	Intel 80486 Microprocessor				
54	Intel 80486 Microprocessor				
		II-INTERNAL			
56	Programmes				
57	Programmes			Assignment-7	
58	Programmes				Seminar-4
59	Programmes				