

GOVT. POLYTECHNIC KORAPUT DEPARTMENT OF ELECTRICAL ENGG.

Pr.3 DIGITAL ELECTRONICS & MICROPROCESSOR LAB

Name of the Course:	Diploma in Electric	al Engineering	
Name of the Faculty:	S Bichiballi		1 cth
Course code:	Pr.3	Semester	5 th
Total Period:	45	Examination	3 hrs
Lab. periods:	3 P / week	Term Work	25
Maximum marks:	75	End Semester Examination:	50

LESSON PLAN

Week	Day	Experiment	
2	1 st	Verify truth tables of AND, OR, NOT, NOR, NAND, XOR, XNOR gates.	
	2 nd	Verify truth tables of Arto, Ort, 1101, 1101	
- nd	3 rd		
2	1 st 2 nd	Implement various gates by using universal properties of NAND & NOR gates and verify truth table.	
	3 rd		
3 rd	1 st		
	2 nd	Implement Half Adder and Full Adder using logic gates.	
	3 rd		
4 th	1 st	Implement Half Subtractor and Full Subtractor using logic gates.	
	2 nd		
- 15	3 rd		
5 th	1 st	Implement a 4-bit Binary to Gray code converter.	
	2 nd		
6 th	1 st		
	2nd	Implement a Single bit digital comparator.	
	3 rd		
7 th 1 st 2 nd	and the local distribution in the local dist	Study of Multiplexer and Demultiplexer.	
	2 nd		
	3 rd		
8 th	1 st	Study of Flip-Flops:	
	2 nd	I. S-R Flip Flop	
	3rd	II. J-K Flip Flop	
		III. D Flip Flop	
		IV. T Flip Flop	
		IV. I TIIP TIOP	
9 th	151	Realize a 4-bit synchronous Up/Down Counter with a control for up/down counting	



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	2 nd		
	3 rd		
10 th	1st		
	2 nd	Implement Mod-10 Asynchronous Counter.	
	3 rd		
11	1 51	Chudu of Ohia D	
	2 nd	Study of Shift Registers.	
	3 rd		
12 th	1 st	General Programming using 8085A development board	
	2 nd	I. 1'S Complement	
	3 rd	II. 2'S Complement	
		III. Addition of 8-bit number	
		IV. Subtraction of 8-bit number resulting 8/16 bit number.	
13 th	1 st	Decimal Addition 8-bit number	
	2 nd	II. Decimal Subtraction 8-bit number	
	3 rd	Decimal oubtraction 6-bit number	
14 th	1 st	I. Compare between two numbers	
	2 nd	II. Find the largest in an Array	
	3 rd	III. Block Transfer.	
5 th	1 st	Interfacing using 8085	
		I. Traffic light control using 8255	
		II. Generation of square wave using 8255	

Signature of concerned faculty

H.O.D Electrical