



SYNERGY SCHOOL OF ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING

Discipline: Electrical Engineering	Semester: - 5 TH sem EE	Name of the teaching faculty: -PRAJNAPARAMITA KABI		
Subject: - Digital electronics microprocessor Lab	No. of Days/week class Allotted: 4	No. of weeks: -15 SESSION-2026-27 WINTER Starting date- 11/7/2026 Ending date 5/11/2026		
No. of week	No. of lab class	Topic to be Taught	Date of delivery	
			G1	G2
1 ST	1 st	Verification of the truth tables of TTL gates.		
	2 nd	Verification of the truth tables of TTL gates.		
2 ND	1 st	Verification of the truth tables of TTL gates.		
	2 nd	Verify the NAND and NOR gates as universal logic gates.		
3 RD	1 st	Verify the NAND and NOR gates as universal logic gates.		
	2 nd	Verify the NAND and NOR gates as universal logic gates.		
4 TH	1 st	Design and verification of the truth tables of Half and Full adder circuits.		
	2 nd	Design and verification of the truth tables of Half and Full adder circuits.		
5 TH	1 st	Design and verification of the truth tables of Half and Full adder circuits.		
	2 nd	Design and verification of the truth tables of Half and Full subtractor circuits.		
6 TH	1 st	Design and verification of the truth tables of Half and Full subtractor circuits.		
	2 nd	Design and verification of the truth tables of Half and Full subtractor circuits.		
7 TH	1 st	Verification of the truth table of the Multiplexer 74150.		
	2 nd	Verification of the truth table of the Multiplexer 74150.		

dh
21/6/26

8 TH	1 st	Verification of the truth table of the Multiplexer 74150.		
	2 nd	Verification of the truth table of the De-Multiplexer 74154.		
9 TH	1 st	Verification of the truth table of the De-Multiplexer 74154.		
	2 nd	Verification of the truth table of the De-Multiplexer 74154.		
10 TH	1 st	Write a program using 8085 Microprocessor for Decimal, Hexadecimal addition and subtraction of two Numbers.		
	2 nd	Write a program using 8085 Microprocessor for Decimal, Hexadecimal addition and subtraction of two Numbers.		
11 TH	1 st	Write a program using 8085 Microprocessor for Decimal, Hexadecimal addition and subtraction of two Numbers.		
	2 nd	Write a program using 8085 Microprocessor for addition and subtraction of two BCD numbers		
12 TH	1 st	Write a program using 8085 Microprocessor for addition and subtraction of two BCD numbers		
	2 nd	Write a program using 8085 Microprocessor for addition and subtraction of two BCD numbers		
13 TH	1 st	Perform multiplication and division of two 8 bit numbers using 8085		
	2 nd	Perform multiplication and division of two 8 bit numbers using 8085		
14 TH	1 st	Perform multiplication and division of two 8 bit numbers using 8085		
	2 nd	Write a program to arrange an array of data in ascending and descending order		
15 TH	1 st	Write a program to arrange an array of data in ascending and descending order		
	2 nd	Write a program to arrange an array of data in ascending and descending order		

Shri
21/6/26
Prepared by

Shri
PRINCIPAL
Synergy School of Engineering
Dhenkanal

Shri
21/6/26
HOD EE
HOD
ELECTRICAL ENGG DEPT.
SSE, Dhenkanal