

UNITED INTERNATIONAL UNIVERSITY

Department of Computer Science and Engineering (CSE) Course Syllabus

	FOR		•		
1	Course Title	Digital Logic Design Laboratory			
2	Course Code	CSE 1326			
3	Trimester and Year	Summer, 2023			
4	Pre-requisites	None			
5	Credit Hours	1			
6	Section	M, S, X, Y			
7	Class Hours	Saturday: 11:11 am - 01:40 pm (M) Sunday: 11:11 am - 01:40 pm (S) Tuesday: 11:11 am - 01:40 pm (X) Tuesday: 02:00 pm - 04:30 pm (Y)			
8	Class Room	508 (Sec-M), 504 (Sec-S), 503 (Sec-X), 504(Sec-Y)			
9	Instructor's Name	Md. Muhyminul Haque			
10	Email	muhyminul@cse.uiu.ac.bd (Preferred)			
11	Office	919			
12	Contact no.	01789926815 (only in case of emergency)			
13	Counselling Hours				
13	Counselling Hours	Day	Time [CNH]		
13	Counselling Hours	Day Saturday	Time [CNH] 1:40 pm - 4:30 pm		
13	Counselling Hours				
13	Counselling Hours	Saturday	1:40 pm - 4:30 pm		
13	Counselling Hours	Saturday	1:40 pm - 4:30 pm 8:30 am - 9:50 am		
13	Counselling Hours	Saturday Sunday	1:40 pm - 4:30 pm 8:30 am - 9:50 am		
13	Counselling Hours	Saturday Sunday Monday	1:40 pm - 4:30 pm 8:30 am - 9:50 am		
13	Counselling Hours	Saturday Sunday Monday Tuesday	1:40 pm - 4:30 pm 8:30 am – 9:50 am 1:40 pm - 4:30 pm		
13	Counselling Hours Text Book	Saturday Sunday Monday Tuesday Wednesday	1:40 pm - 4:30 pm 8:30 am - 9:50 am 1:40 pm - 4:30 pm 8:30 am - 9:50 am		
		Saturday Sunday Monday Tuesday Wednesday	1:40 pm - 4:30 pm 8:30 am - 9:50 am 1:40 pm - 4:30 pm 8:30 am - 9:50 am 11:10 am - 4:30 pm		
		Saturday Sunday Monday Tuesday Wednesday Logic and Computer Design	1:40 pm - 4:30 pm 8:30 am - 9:50 am 1:40 pm - 4:30 pm 8:30 am - 9:50 am 11:10 am - 4:30 pm		
14	Text Book	Saturday Sunday Monday Tuesday Wednesday Logic and Computer Design Kime, 5th Edition.	1:40 pm - 4:30 pm 8:30 am - 9:50 am 1:40 pm - 4:30 pm 8:30 am - 9:50 am 11:10 am - 4:30 pm Fundamentals. M. Morris Mano and Charles R.		

18	CO with			
	Assessment	CO	Assessment Method	(%)
	Methods	-	Attendance	10%
		CO1, CO2, CO3	Class Performance	20%
		-	Report	10%
			Setup Test	20%
		CO1	Mid Term/Viva	15%
		CO2	Final Exam	25%

19 Lab Outline

Class	Topics/Assignments	COs	Lab Outcomes/Activities
Lab1	Identify the Basic Gates (AND, OR, NOT) & Some other Gates (NOR, NAND, XOR, XNOR).	CO1, CO3	Able to identify the Basic Gates (AND, OR, NOT) & Some other Gates (NOR, NAND, XOR, XNOR).
Lab2	Simplify and implement functions with necessary gates.	CO1, CO3	Able to simplify and implement functions with necessary gates.
Lab3	Implement a 3-bit Binary-to-Gray code convertor circuit with required gates.	CO1, CO3	Able to implement a 3-bit Binary-to-Gray code convertor circuit with required gates.
Lab4	Implement Full Adder circuits	CO1, CO3	Able to implement multiple bit Full Adders.
Lab5	Implement functions using decoder and gates.	CO1, CO3	Able to implement functions using decoder and gates.
Lab6	Implement functions using multiplexers.	CO1, CO3	Able to implement functions using multiplexers.
	Week 7: MI	DTERM	VIVA/QUIZ
Lab7	Implement registers. (Week 7)	CO2, CO3	Able to implement registers.
Lab8	Implement Ripple Counters.	CO2, CO3	Able to implement Ripple Counter.
Lab9	Implement Arbitrary Synchronous Counters.	CO2, CO3	Able to implement Arbitrary Synchronous Counters.
Lab10	Implement a sequence recognizer '1011'	CO2, CO3	Able to implement sequence recognizers.

Week 11: SETUP TEST

Week 12: FINAL QUIZ

Appendix 1: Assessment Methods

Assessment Types	Marks
Attendance	10%
Class Performance	20%
Report	10%
Setup test/ Presentation (on Project)	20%
Mid Term (Viva)	15%
Final Exam	25%

Regarding Assessment Methods