

Course Profile

Semester: Fall

Year: 2020

Level/Term: 3-3/3-2

I. Course Code:	EEE 324			
II. Course Title:	Microprocessor and Interfacing Laboratory			
III. Credit:	1	IV. Pre-Requisite:	EEE 323	
V. Contact Hours:	Lecture- 2 hours/week			

VI. Course Objectives:

This is a sessional course where main objective is realizing the operation of power system protection modules along with theory.

The objectives of this course are:

- > Understand the basics of assembly language
- > Using assembly commands to implement basic algorithms
- ➤ Understanding the layout of an 8086 processor
- ➤ Learning to operate a basic 8086 kit

VII. Course Outcome (COs):							
SI. No.	COs (Upon successful completion of this course, students should be able to)	Corresponding POs	Bloom's taxonomy domain/le vel*		my	Delivery Methods & activities	Assessment tools
		_ T	С	Α	Р		
CO 451-	Interpret the assembly language algorithms	d	2	-	4	Lectures, Demonstration	Lab performance, Report, Final quiz
CO 451-	Design various approach to control a 8086 microprcessor	С	3	4	2	Lectures, Demonstration	Lab performance, Report, Final quiz
CO 451-	Realize the possible fields where 8086 can be implemented.	a	2	3	1	Lectures, Demonstration	Lab performance, Report, Final quiz



* C: Cognitive, P: Psychomotor; A: Affective

VIII. Course Plan with Detail Description:

Session	Contents	СО
Week 1	INTRODUCTION TO EMULATOR 8086 AND DATA ADDRESSING MODE	CO 451-1
Week 2	FAMILIARIZATION WITH THE STACK MEMORY ADDRESSING MODE	CO 451-1
Week 3	SINGLE CHARACTER, STRING AND NUMBER PRINTING TO DISPLAY USING ASSEMBLY LANGUAGE	CO 451-1,2
Week 4	USING LOOP AND CONDITIONAL JUMPS IN ASSEMBLY LANGUAGE	CO 451-1,2
Week 5	USE OF SUBROUTINE AND MACRO IN ASSEMBLY LANGUAGE.	CO 451-1,2
Week 6	INTRODUCTION OF MICROPROCESSOR KIT 8086 AND TO WRITE INSTRUCTION TO MEMORY AND EXECUTE.	CO 451-3
Week 7	WRITING A PROGRAM TO TURN ON/OFF THE LEDS PRESENT IN MDE-8086 KIT.	CO 451-1,3
Week 8	INTERFACING 8086 WITH SERIAL MONITOR AND WRITING LOGICAL INSTRUCTIONS USING 8086 AND SERIAL MONITOR.	CO 451-1,2,3
Week 9	TO WRITE A PROGRAM TO DEMONSTRATE I/O OPERATION, CREATING ABS FILE OF IT AND LOADING IT USING WINCOMM SOFTWARE.	CO 451-1,2,3
Week 10	WRITING A C LANGUAGE PROGRAM TO TURN ON/OFF 8X8 MATRIX LED PRESENT IN MICROPROCESSOR 8086 KIT AND LOAD IT TO MEMORY USING WINCOM SOFTWARE.	CO 451-1,2,3

IX. Evaluation Policy:

Marks Distribution:	Attendance	10%
	Report	25%
	Performance	25%



	Quiz	40%	
	Total	100%	
Grading System:	As per DIU rule		

X. Resources:

Textbooks:

- 1. Microprocessor and Interfacing (2nd Edition)
 - Douglas Hall

XI. Course Instructor(s):

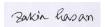
 Name: Md. Zakir Hasan Designation: Lecturer

Email: zakir.eee0191.c@diu.edu.bd

Cell: 01796-674214

XII. Approval of the teacher along with sign:

I/We agree that you may excerpt some of my work to share with other teaching assistants and faculty. The purpose is to assess student learning and to improve teaching. I recognize that every effort will be made to keep this information confidential and that my name will not be associated with my comments.



Signature of the Instructors