

# **Course Profile**

Semester: Summe Year: 2019 Level/Term: 4-1	r				
I. Course Code:	. Course Code: EEE 324				
II. Course Title: Microprocessor and Interfacing Laboratory					
III. Credit:	II. Credit: 1 IV. Pre-Requisite: EEE 323				
V. Contact Hours:	/. 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:					
<ul> <li>Understand the basics of assembly language</li> <li>Using assembly commands to implement basic algorithms</li> <li>Understanding the layout of an 8086 processor</li> <li>Learning to operate a basic 8086 kit</li> </ul>					

VII. Course Outcome (COs):							
SI. No.	COs (Upon successful completion of this course, students should be able to)		Bloom's taxonomy domain/le vel*		i's my h/le	Delivery Methods & activities	Assessment tools
			C	A	Р		
CO 451- 1	Interpret the assembly language algorithms	d	2	-	4	Lectures, Demonstration	Lab performance, Report, Final quiz
CO 451- 2	<b>Design</b> various approach to control a 8086 microprcessor	с	3	4	2	Lectures, Demonstration	Lab performance, Report, Final quiz
CO 451- 3	<b>Realize</b> the possible fields where 8086 can be implemented.	a	2	3	1	Lectures, Demonstration	Lab performance, Report, Final quiz

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

# VIII. Course Plan with Detail Description:

Session	Contents	CO
Week 1	INTRODUCTION TO EMULATOR8086 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%	

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

### X. Resources:

#### Textbooks:

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

## XI. Course Link in Moodle/Google Class Room:

Google Classroom code:

### XII. Course Instructor(s):

 Name: Khandaker Reaz Mahmud Designation: Lecturer Email: khandaker.eee@diu.edu.bd Cell: 01521253140

#### XIII. 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