North South University

Department of Electrical and Computer Engineering

CSE 331L/EEE332L/ETE332L: Microprocessor Interfacing and Embedded Systems

Course Outline

Lab Officer   : M. A. Muhiminul Islam
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Section   : 09
Class Time   : M 02:40 PM - 05:50 PM

Office   : 600 (C3)
Office Hour : W 02:00 PM - 05:30 PM

Textbook

1. Douglas V. Hall, Microprocessor and Interfacing, McGraw-Hill.
2. Golam Mostafa, 8086 Microprocessor Interfacing and System Design.
3. Charles Marut and Ytha Y. Yu, Assembly Language Programming and Organization of the IBM PC, McGraw-Hill.

General Overview

Assembly language programming using Intel 8086 instruction set.
Working with EMU 8086.

Assessment

Content	Marks
Attendance	10
Assignment	20
Mid	35
Final	35

Academic Misconduct

Cheating and Plagiarism will not be tolerated at any stage. These are a serious violation of academic ethical standards and are unfair to other students. It is expected that all work handed in by a student will be original work that has been done by the individual (or group where applicable).

Lab Topic Outline

The tentative Lab topics are listed below. Not all topics will be covered in the same degree of detail and the sequence may differ somewhat from the list.

Lab 01	Introduction to registers and emu 8086
Lab 02	Creating variables, constants and arrays; Learn how to access Memory; Instructions: INC, DEC, LEA
Lab 03	Conditional jumps/unconditional jumps; Procedures; Instructions: CMP, AND, SUB, JZ, JMP
Lab 04	Library of common functions - emu8086.inc
Lab 05	MID
Lab 06	Practice problems
Lab 07	Practice problems
Lab 08	Practice problems
Lab 09	Practice problems
Lab 10	Final

Notes

*** Students will have to achieve at least 60% marks to pass the laboratory course

*** 10% of the obtained mark will be added to the theory course

*** Absolutely no make-up