CC411 Introduction to Microprocessor

C O U R S E I N F O R M A T I O N

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
CC312	4	7	2	2		3

C O U R S E A I M

Is to have an in depth knowledge of the architecture and programming of 8-bit and 16-bit Microprocessors and to study how to interface various peripheral devices with them.

C O U R S E W E E K L Y C O N T E N T S

1	Introduction to Computing
2	Brief History of The 80x86 Family, Pipelining, Introduction to Assembly Programming, and Introduction to Program Segments, Logical address, and Physical address.
3	Stack and stack operations, 80x86 Addressing Modes
4	Assembly Language Programming
5	Arithmetic Instructions and Programs.
6	Logic Instructions and Programs
7	7th week exam.
8	8088 Microprocessor
9	8284 and 8288 Supporting Chips
10	8-bit Section of ISA Bus.
11	Semi-Conductor Memory Fundamentals
12	12th week Exam
13	Memory Address Decoding, IBM PC Memory Map
14	8088 Input/Output Instructions, Programming and Interfacing the 8255
15	Project Presentation + Revision

S T U D E N T G R A D I N G & A S S E S S M E N T

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab	Total
1 to 7	2 0	5	5				**30**

	M I D T E R M						
8 to 12	1 5 1 2 T H W E E K E X A M		5				**20**
13 to 15		5			5 T E R M P R O J E C T		**10**
16 or 17	**40** **Final**						**40**
Total	**75**	**10**	**10**	**0**	**5**	**0**	100

R E F E R E N C E S

Textbook	80x86 IBM PC and compatible computers by Muhammad Ali Mazidi and Janice Gillispie Mazidi, Prentice Hall, latest edition
Other	Intel Microprocessors y Barry B. Brey, Prentice Hall, latest edition