

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF340-B	Microprocessors	6	2	0	2	3	5
Prerequisites							
Admission Requirements							
Language of Instruction	Turkish						
Course Type	Compulsory						
Course Level	Bachelor Degree						
Objective	The aim of this course is to study the functioning of a microprocessor and microprocessor based systems also their programming in assembly language.						
Content	w1 Introduction and history						
	w2 Review of digital systems						
	w3 Microprocessor based systems						
	w4 8085 architecture						
	w5 Input/Output interfacing						
	w6 8085 assembly programming						
	w7 Midterm						
	w8 Programming: instruction set						
	w9 Memory and register management instructions						
	w10 Program execution control instructions						
	w11 Stacks and subroutines						
	w12 Interrupts						
	w13 16-32 bit microprocessors and microcontrollers						
	w14 Project presentations						
References	Microprocessor Architecture, Programming, and Applications with the 8085 (4th Edition), Ramesh S. Gaonkar, Prentice Hall 1998						

Theory Topics

Week	Weekly Contents
1	Introduction and history
2	Review of digital systems
3	Microprocessor based systems
4	8085 architecture
5	Input/Output interfacing
6	8085 assembly programming
7	Midterm
8	Programming: instruction set
9	Memory and register management instructions
10	Program execution control instructions
11	Stacks and subroutines
12	Interrupts
13	16-32 bit microprocessors and microcontrollers
14	Project presentations