

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF340-A	Microprocessors	6	2	0	2	3	5

Prerequisites

Admission Requirements

Language of Instruction French

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.

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

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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