Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF340	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.
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