Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
ING220-B	Digital Design	4	2	0	2	3	4

Prerequisites	
Admission Requirements	

Language of Instruction	French	
Language of mistruction		
Course Type	Compulsory	
Course Level	Bachelor Degree	
Objective	This course is a general introduction to digital design concepts. İt aims to show the main differences between analog and digital processing of signals also teach the analysis and design of combinatory and sequential logic circuits.	
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References	"Digital Design", Morris Mano	

Theory Topics

Week	Weekly Contents
1	Intoduction to digital systems
2	Review of digital systems
3	Boolean algebra
4	Logic gates
5	Boolean function simplification
6	Combinatory systems
7	Analysis and synthesis of combinatory systems
8	Midterm
9	MSI circuits
10	Programmable logic devices
11	Synchronous sequential systems
12	Synchronous sequential system design

Week	Weekly Contents	
13	Counters and registers	
14	Memory elements	