

FACULTY OF ARCHITECTURE AND ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
MASTER OF SCIENCE PROGRAM IN COMPUTER ENGINEERING

FIRST YEAR

First Semester

COURSES		Course Type	Compulsory /Elective	Weekly Course Distribution				Epoka Credits	Semestral Lecture and studying hours						ECTS
Code	Course Name			Theory	Pract.	Lab.	Total		Lect.	Pract.	Lab.	Site W.	Other	Total	
CEN 409	Research Methods	A	Compulsory	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN xxx	Elective	A	Compulsory	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN xxx	Elective	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN xxx	Elective	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
Semestral Total				12	8	0	20	16	192	128	0	430	0	750	30

FIRST YEAR

Second Semester

COURSES		Course Type	Compulsory /Elective	Weekly Course Distribution				Epoka Credits	Semestral Course and studying hours						ECTS
Code	Course Name			Theory	Pract.	Lab.	Total		Lect.	Pract.	Lab.	Site W.	Other	Total	
CEN xxx	Elective	A	Compulsory	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN xxx	Elective	B	Compulsory	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN xxx	Elective	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN xxx	Elective	D	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
Semestral Total				12	8	0	20	16	192	128	0	430	0	750	30

SECOND YEAR

Third Semester

COURSES		Course Type	Compulsory /Elective	Weekly Course Distribution				Epoka Credits	Semestral Lecture and studying hours						ECTS
Code	Course Name			Theory	Pract.	Lab.	Total		Lect.	Pract.	Lab.	Site W.	Other	Total	
CEN 593	Graduate Project	F	Compulsory	1	9	0	10	5.5	16	144	0	215	0	375	15
CEN xxx	Elective	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN xxx	Elective	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
Semestral Total				7	13	0	20	13.5	112	208	0	430	0	750	30

SECOND YEAR

Fourth Semester

COURSES		Course Type	Compulsory /Elective	Weekly Course Distribution				Epoka Credits	Semestral Course and studying hours					ECTS	
Code	Course Name			Theory	Pract.	Lab.	Total		Lect.	Pract.	Lab.	Site W.	Other		Total
CEN 500	Thesis	F	Compulsory	0	0	0	0	0	0	0	0	750	0	750	30
Semestral Total				0	0	0	0	0	0	0	0	750	0	750	30

The Department offers five different fields of studies:

1. Computational Mathematics
2. Theory of Computation
3. Data Management
4. Network & Security
5. Bioinformatics

A student, in order to acquire a general knowledge in the Computer Engineering area, needs to take at least one course from each field.

List of Elective courses:

COURSES		Course Type	Compulsory /Elective	Weekly Course Distribution				Epoka Credits	Semestral Lecture and studying hours					ECTS	
Code	Course Name			Theory	Pract.	Lab.	Total		Lect.	Pract.	Lab.	Site W.	Other		Total
CEN 553	Theory of Computation	F	Elective	1	9	0	10	5.5	16	144	0	215	0	187.5	7.5
CEN 514	Randomized Algorithm	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 567	Advanced Algorithms & Datastructures	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 552	Advanced Database Management System	F	Elective	1	9	0	10	5.5	16	144	0	215	0	375	7.5
CEN 415	Information Retrieval	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 592	Knowledge Management	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 571	Data Mining	F	Elective	1	9	0	10	5.5	16	144	0	215	0	375	7.5
CEN 563	Adv. Concepts in computer Networks	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 564	Wireless Networks	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 462	Network Security	F	Elective	1	9	0	10	5.5	16	144	0	215	0	375	7.5

CEN 531	Information Security and Computer Forensics	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 461	Network Programming	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 593	Nano-Science and Nano-Technology	F	Elective	1	9	0	10	5.5	16	144	0	215	0	375	7.5
CEN 565	Bioinformatics	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5
CEN 555	Nanobiomaterials	F	Elective	1	9	0	10	5.5	16	144	0	215	0	375	7.5
CEN 509	Tissue Engineering	B	Elective	3	2	0	5	4	48	32	0	107.5	0	187.5	7.5