

FACULTY OF ARCHITECTURE AND ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
3 (THREE) YEARS BACHELOR DIPLOMA IN ELECTRONICS AND DIGITAL COMMUNICATION ENGINEERING

First Year

First 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	
MTH 103	Linear Algebra	A	Compulsory	3	0	0	3	3	48	0	0	77	0	125	5
CEN 109	Introduction to Algorithms & Programming	B	Compulsory	3	0	2	5	4	48	0	32	95	0	175	7
MTH 101	Calculus I	A	Compulsory	3	2	0	5	4	48	32	0	95	0	175	7
PHY 101	General Physics I	A	Compulsory	3	2	0	5	4	48	32	0	95	0	175	7
ENG 103	Development of Reading and Writing Skills in English I	E	Compulsory	3	0	0	3	3	48	0	0	52	0	100	4
Semestral Total				15	4	2	21	18	240	64	32	414	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	
MTH 106	Discrete Mathematics	A	Compulsory	3	0	0	3	3	48	0	0	77	0	125	5
CEN 110	C Programming	B	Compulsory	3	0	2	5	4	48	0	32	95	0	175	7
MTH 102	Calculus II	A	Compulsory	3	2	0	5	4	48	32	0	95	0	175	7
PHY 104	General Physics II	A	Compulsory	3	2	0	5	4	48	32	0	95	0	175	7
ENG 104	Development of Reading and Writing Skills in English II	E	Compulsory	3	0	0	3	3	48	0	0	52	0	100	4
Semestral Total				15	4	2	21	18	240	64	32	414	0	750	30

Second Year

Third 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	
ECE 201	Signals and Systems	B	Compulsory	3	0	2	5	4	48	0	32	95	0	175	7
ECE 203	Circuit Theory	B	Compulsory	3	0	2	5	4	48	0	32	95	0	175	7
CEN 219	Computer Organization	B	Compulsory	2	2	0	4	3	32	32	0	86	0	150	6
MTH 207	Fundamentals of Probability	C	Compulsory	4	0	0	4	4	64	0	0	86	0	150	6
	Non technical elective	D	Elective	3	0	0	3	3	48	0	0	52	0	100	4
Semestral Total				15	2	4	21	18	240	32	64	414	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	
ECE 202	Electromagnetic Field Theory	C	Compulsory	2	0	2	4	3	32	0	32	86	0	150	6
ECE 204	Electronics I	B	Compulsory	3	0	2	5	4	48	0	32	95	0	175	7
ECE 206	Digital Electronics I	B	Compulsory	3	0	2	5	4	48	0	32	95	0	175	7
ECE 208	Numerical Analysis	C	Compulsory	2	2	0	4	3	32	32	0	86	0	150	6
	Non technical elective	D	Elective	3	0	0	3	3	48	0	0	52	0	100	4
Semestral Total				13	2	6	21	17	208	32	96	414	0	750	30

Non technical electives

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	
BUS 103	Introduction to Business	D	Elective	3	0	0	3	3	48	0	0	52	0	100	4
BUS 114	Communication Skills	D	Elective	3	0	0	3	3	48	0	0	52	0	100	4
BUS 105	Introduction to Law	D	Elective	3	0	0	3	3	48	0	0	52	0	100	4
		D	Elective	3	0	0	3	3	48	0	0	52	0	100	4
		D	Elective	3	0	0	3	3	48	0	0	52	0	100	4

Third Year

Fifth 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	
ECE 301	Electronics II	B	Compulsory	2	0	2	4	3	32	0	32	86	0	150	6
ECE 303	Electromagnetic Waves	B	Compulsory	2	0	2	4	3	32	0	32	86	0	150	6
ECE 305	Digital Communication I	B	Compulsory	2	0	2	4	3	32	0	32	86	0	150	6
ECE 307	Computer Networks	B	Compulsory	2	0	2	4	3	32	0	32	86	0	150	6
	Technical Elective	D	Elective	2	2	0	4	3	32	32	0	86	0	150	6
Semestral Total				10	2	8	20	15	160	32	128	430	0	750	30

Third Year

Sixth 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	
ECE 302	Antennas and Propagation	B	Compulsory	2	0	2	4	3	32	0	32	86	0	150	6
ECE 304	Control Systems	B	Compulsory	2	0	2	4	3	32	0	32	86	0	150	6
ECE 306	Power Electronics	B	Compulsory	2	0	2	4	3	32	0	32	86	0	150	6
ECE 3xx	Technical Elective	E	Elective	2	0	2	4	3	32	0	32	86	0	150	6
ECE 390	Graduation Project	F	Compulsory	1	4	0	5	3	16	64	0	70	0	150	6
ECE 399	Final Comprehensive Exam		Compulsory	1	4	0	5	3	16	64	0	70	0	150	6
Semestral Total				9	4	8	21	15	144	64	128	414	0	750	30

Technical electives

COURSES		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	
ECE 310	Communication Theory	Elective	3	0	0	3	3	48	0	0	102	0	150	6
From CEN	Web Technologies and Programming	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 314	Telecommunication Circuits	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 318	Multimedia Signal Distribution	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 320	Computer Graphics	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 324	Computer Animation	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 326	Digital Photography	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 330	Microwaves	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 332	Introduction to Optical Fibers	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 334	Digital Data Transmission	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 336	Digital Signal Processing	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 338	Satellite Communication	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 340	Microcontrollers	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 342	Fundamentals of Audio Engineering	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 384	Internship	Elective	0	0	0	0	0	0	0	0	150	0	150	6
ECE 346	Television Technique	Elective	3	0	0	3	3	48	0	0	102	0	150	6
CEN 308	Operating Systems	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 358	Information Theory and Coding	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 366	Introduction to Nanoscience and Nanotechnology	Elective	3	0	0	3	3	48	0	0	102	0	150	6
CEN 370	Distributed Systems	Elective	3	0	0	3	3	48	0	0	102	0	150	6
CEN 328	Programming Languages I	Elective	3	0	0	3	3	48	0	0	102	0	150	6

ECE 312	Digital Multimedia	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 348	Communication Theory	Elective	3	0	0	3	3	48	0	0	102	0	150	6
ECE 350	Telecommunication Circuits	Elective	3	0	0	3	3	48	0	0	102	0	150	6