

EPOKA UNIVERSITY
FACULTY OF ARCHITECTURE AND ENGINEERING
DEPARTMENT OF COMPUTER ENGINEERING
DOCTORATE (PhD) PROGRAM IN COMPUTER ENGINEERING

The curriculum of the PhD program:

Year I - First Semester		T	P	C	ECTS
CEN 8xx	ELECTIVE COURSE	3	0	3	7.5
CEN 8xx	ELECTIVE COURSE	3	0	3	7.5
CEN 8xx	ELECTIVE COURSE	3	0	3	7.5
CEN 8xx	ELECTIVE COURSE	3	0	3	7.5
Total:		12	0	12	30

Year I - Second Semester		T	P	C	ECTS
CEN 8xx	ELECTIVE COURSE	3	0	3	7.5
CEN 8xx	ELECTIVE COURSE	3	0	3	7.5
CEN 8xx	ELECTIVE COURSE	3	0	3	7.5
CEN 8xx	ELECTIVE COURSE	3	0	3	7.5
Total:		12	0	12	30

Year II+III		T	P	C	ECTS
CEN 800	PhD Thesis	0	0	0	120
Total:		0	0	0	120

Note: **T** – Theoretical hours
P – Practical hours
C – Credits according to American System
ECTS – Credits according to ECTS System

List of Elective courses:

Course Code	Course Name	T	P	C	ECTS
CEN 801	Special Topics in Software Engineering	3	2	4	7.5
CEN 802	Complex Systems	3	2	4	7.5
CEN 803	Software Project Management	3	2	4	7.5
CEN 804	Advanced Topics in Computer Engineering	3	2	4	7.5
CEN 805	Operating System Design	3	2	4	7.5
CEN 806	Distributed Systems	3	2	4	7.5
CEN 807	Object Oriented Software Engineering	3	2	4	7.5
CEN 809	Research Methods	3	2	4	7.5
CEN 811	Advanced Object Oriented Programming	3	2	4	7.5
CEN 813	Formal Languages & Compilers	3	2	4	7.5
CEN 814	Metaheuristics	3	2	4	7.5
CEN 815	Information Retrieval	3	2	4	7.5
CEN 816	Mobile Applications Programming	3	2	4	7.5
CEN 818	System Administration I	3	2	4	7.5
CEN 819	System Administration II	3	2	4	7.5
CEN 820	Theory of Computation	3	2	4	7.5
CEN 821	Web Engineering	3	2	4	7.5
CEN 823	XML and Web Services	3	2	4	7.5
CEN 825	E-Business and E-commerce	3	2	4	7.5
CEN 827	Directed Study I	3	2	4	7.5
CEN 828	Directed Study II	3	2	4	7.5
CEN 831	Information Security and Comp. Forensics	3	2	4	7.5
CEN 833	Advanced Simulation and Modelling	3	2	4	7.5
CEN 835	Advanced Math for Computer Science	3	2	4	7.5
CEN 873	Artificial Neural Networks	3	2	4	7.5
CEN 839	Introduction to Nano-Science and Nano-Technology	3	2	4	7.5
CEN 843	Digital Image Processing	3	2	4	7.5
CEN 845	Advanced Numerical Methods	3	2	4	7.5
CEN 848	Programming Languages I	3	2	4	7.5
CEN 849	Programming Languages II	3	2	4	7.5
CEN 850	Programming Languages III	3	2	4	7.5
CEN 851	Speech Processing	3	2	4	7.5
CEN 852	Advanced Database Management Systems	3	2	4	7.5
CEN 853	Design and Analysis of Algorithms	3	2	4	7.5
CEN 855	Bioinformatics	3	2	4	7.5
CEN 856	Introduction to Cloud Computing	3	2	4	7.5
CEN 861	Network Programming	3	2	4	7.5
CEN 862	Network Security	3	2	4	7.5
CEN 864	Wireless Networks	3	2	4	7.5
CEN 865	Tissue Engineering	3	2	4	7.5
CEN 871	Data Mining	3	2	4	7.5
CEN 872	Special Topics in Artificial Intelligence	3	2	4	7.5
CEN 870	Cryptography	3	2	4	7.5
CEN 874	Fuzzy Logic	3	2	4	7.5
CEN 875	Computer Vision	3	2	4	7.5
CEN 876	Management Information Systems	3	2	4	7.5
CEN 877	Nanomaterials	3	2	4	7.5
CEN 878	Machine Learning	3	2	4	7.5
CEN 879	Randomized Algorithms	3	2	4	7.5
CEN 881	Information Theory	3	2	4	7.5
CEN 883	Computer Architecture	3	2	4	7.5
CEN 884	Design of Embedded Systems	3	2	4	7.5
CEN 885	Parallel Computing	3	2	4	7.5
CEN 886	Advanced Computer Architecture	3	2	4	7.5

CEN 887	Advanced Topics in Computer Science	3	2	4	7.5
CEN 863	Advanced Concepts in Computer Networks	3	2	4	7.5
CEN 892	Knowledge Management	3	2	4	7.5
CEN 869	Theory of Computation	3	2	4	7.5
CEN 867	Advanced Algorithms and Datastructures	3	2	4	7.5