

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

The curriculum of the PhD program:

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

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

Year II+III		T	P	C	ECTS
CE 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
CE 801	Research Methods	3	0	3	7.5
CE 804	Numerical Analysis	3	0	3	7.5
CE 805	Computer Programming for Structural Dynamics	3	0	3	7.5
CE 811	Advanced Structural Dynamics	3	0	3	7.5
CE 812	Behavior of RC Members and Structures	3	0	3	7.5
CE 813	Bridge Assessment	3	0	3	7.5
CE 814	Earthquake Engineering	3	0	3	7.5
CE 815	Pre-stressed Concrete	3	0	3	7.5
CE 816	Advanced Structural Design	3	0	3	7.5
CE 817	Earthquake Resistant Design of Building Structures	3	0	3	7.5
CE 818	Performance Based Seismic Design	3	0	3	7.5
CE 819	Nonlinear Structural Analysis	3	0	3	7.5
CE 820	Finite Element Analysis	3	0	3	7.5
CE 821	Economic Decision Analyses in Construction	3	0	3	7.5
CE 822	Project Planning	3	0	3	7.5
CE 823	Risk Management in Construction	3	0	3	7.5
CE 824	Advanced Construction Management	3	0	3	7.5
CE 833	Wastewater Treatment Processes	3	0	3	7.5
CE 834	Advanced Hydrology	3	0	3	7.5
CE 841	Soil Behavior	3	0	3	7.5
CE 842	Advanced Soil Mechanics	3	0	3	7.5
CE 843	Advanced Foundation Engineering	3	0	3	7.5
CE 844	Finite Element Applications in Geotechnical Engineering	3	0	3	7.5
CE 851	Concrete Durability	3	0	3	7.5
CE 852	Advanced Concrete Technology	3	0	3	7.5
CE 853	Advanced Materials of Construction	3	0	3	7.5
CE 854	Repair and Retrofitting Concepts in Construction Materials	3	0	3	7.5
CE 855	Repair and Strengthening of Structures	3	0	3	7.5
CE 856	Condition and Vulnerability Assessment of Buildings	3	0	3	7.5
CE 861	Design of Dams	3	0	3	7.5
CE 862	Hydraulic System Design	3	0	3	7.5
CE 863	Advanced Water Distribution Networks	3	0	3	7.5
CE 864	Fluid Transient in Closed Conduits	3	0	3	7.5
CE 865	Sediment Transport	3	0	3	7.5
CE 866	Computational Fluid Dynamics	3	0	3	7.5
CE 871	Advanced Traffic Engineering	3	0	3	7.5
CE 872	Advanced Transportation Engineering	3	0	3	7.5
CE 873	Pavement Design	3	0	3	7.5
CE 874	Advanced Highway Materials and Construction	3	0	3	7.5
CE 880	Specialization Field Course	3	0	3	7.5
CE 881	Special Studies in Civil Engineering	3	0	3	7.5

