

FACULTY OF ARCHITECTURE AND ENGINEERING
DEPARTMENT OF CIVIL ENGINEERING
PROFESIONAL MASTER PROGRAM IN CIVIL ENGINEERING

FIRST YEAR															
First Semester															
COURSES		Course Type	Compulsory /Elective	Weekly Course Distribution				Epoka	Semestral Lecture and studying hours						ECTS
Code	Course Name			Theory	Pract.	Lab.	Total	Credits	Lect.	Pract.	Lab.	Site W.	Other	Total	
CE 400	Eng. Application	E	Compulsory	0	0	0	0	0	0	0	0	70	30	100	10
CE 489	Fundamentals of Steel Design	B	Compulsory	2	2	0	4	3	32	32	0	70	45	179	8
CE xxx	Technical Elective	D	Elective	3	0	0	3	3	48	0	0	56	3	107	6
CE xxx	Technical Elective	D	Elective	3	0	0	3	3	48	0	0	38	20	106	6
Semestral Total				8	2	0	10	9	128	32	0	234	98	492	30

FIRST YEAR															
Second Semester															
COURSES		Course Type	Compulsory /Elective	Weekly Course Distribution				Epoka	Semestral Course and studying hours						ECTS
Code	Course Name			Theory	Pract.	Lab.	Total	Credits	Lect.	Pract.	Lab.	Site W.	Other	Total	
CE 402	Supervised Independent Study and Research	C	Compulsory	1	4	0	5	3	16	64	0	100	65	245	12
CE xxx	Technical Elective	B	Elective	3	0	0	3	3	48	0	0	50	3	101	6
CE xxx	Technical Elective	D	Elective	3	0	0	3	3	48	0	0	50	3	101	6
CE xxx	Technical Elective	D	Elective	3	0	0	3	3	48	0	0	50	3	101	6
Semestral Total				16	4	0	14	18	160	64	0	250	74	548	30

List of Elective courses:

Course Code	Course Name	T	P	C	ECTS
CE 411	Legal Aspects In Construction Works	3	0	3	6

CE 412	Construction Site Techniques	3	0	3	6
CE 414	Construction Planning	3	0	3	6
CE 421	Properties of Fresh And Hardened Concrete	3	0	3	6
CE 446	Intermediate Fluid Mechanics	3	0	3	6
CE 451	Groundwater Engineering	3	0	3	6
CE 452	Statistical Techniques In Hydrology	3	0	3	6
CE 461	Foundation Engineering II	3	0	3	6
CE 462	Ground Improvement	3	0	3	6
CE 471	Coastal Zone Management	3	0	3	6
CE 481	Highway Design	3	0	3	6
CE 482	Traffic Safety And Accident Investigation	3	0	3	6
CE 491	Reinforced Concrete Structures	3	0	3	6
CE 492	Advanced Structural Analysis	3	0	3	6
CE 493	Prestressed Concrete	3	0	3	6
CE 494	Structural Design: Concrete Structures	3	0	3	6
CE 489	Fundamentals of Steel Design	3	0	3	6
CE 451	Water Resources Engineering	3	0	3	6
CE 448	Intermediate Structural Dynamics	3	0	3	6
CE 495	Introduction To Earthquake Resistant Design	3	0	3	6
CE 514	Special Topics in Data Collection, analysis and modelling in Construction Industry	3	0	3	7.5
CE 515	Computer Applications in Construction Management	3	0	3	7.5
CE 520	Modelling in Hydrology	3	0	3	7.5
CE 521	Fundamentals of River Engineering	3	0	3	7.5
CE 525	Computational Fluid Dynamics	3	0	3	7.5
CE 526	Water Resources Engineering	3	0	3	7.5
CE 533	Soil Improvement Techniques	3	0	3	7.5
CE 534	Geotechnical Investigations	3	0	3	7.5
CE 535	Geotechnical Earthquake Engineering	3	0	3	7.5
CE 540	Advanced Materials Science	3	0	3	7.5
CE 542	Durability of Building Materials	3	0	3	7.5
CE 543	Advanced Concrete Technology	3	0	3	7.5

CE 544	Materials Testing and Measurements	3	0	3	7.5
CE 550	Advanced Mechanics of Materials	3	0	3	7.5
CE 552	Structural Design	3	0	3	7.5
CE 553	Nonlinear Problems in Reinforced Concrete	3	0	3	7.5
CE 554	Prestressed and Prefabricated Systems	3	0	3	7.5
CE 555	Earthquake Resistant Design of Structures	3	0	3	7.5
CE 556	Matrix Methods of Structural Analysis	3	0	3	7.5
CE 557	Advanced Steel Structures	3	0	3	7.5
CE 558	Advanced Reinforced Concrete	3	0	3	7.5
CE 559	Structural Dynamics	3	0	3	7.5