DEPARTMENT OF CIVIL ENGINEERING UNDERGRADUATE INDICATIVE CURRICULUM

		UNDERGRADUATE INDICATIVE CURRICULUM		
ID	Code	Title	Week Hours	ECTS
	550400	1 st Semester	1 -	
1		Mathematics I (Compulsory)	5	6
3		Engineering Mechanics I (Compulsory) Statistics (Compulsory)	3	6
4		Construction Materials I (Compulsory)	4	6
5		Technical Drawing (Compulsory)	4	6
			Total:	30
	550400	2 nd Semester	1 -	
1		Mathematics II (Compulsory)	5	6
3		Applied Informatics for Civil Engineering (Compulsory) Construction Materials II (Compulsory)	3	6
4		Strength of Materials and Structural Elements I (Compulsory)	5	6
5		Urban and Regional Planning and Development (Compulsory)	3	6
		ard a	Total:	30
1	FE0000	3 rd Semester	1 4	1
2		Mathematics III (Compulsory) Numerical Analysis (Compulsory)	4	4
3		Geodesy I (Compulsory)	4	4
4		Engineering Geology I (Compulsory)	5	6
5		Strength of Materials and Structural Elements II (Compulsory)	5	6
6		Fluid Mechanics (Compulsory)	5	6
		A th Courseles	Total:	30
1	TF0400	4 th Semester Geodesy II (Compulsory)	4	6
2		Building Construction I (Compulsory)	5	6
3		Structural Analysis I (Compulsory)	6	6
4		Transportation Engineering (Compulsory)	4	6
5		Hydraulics (Compulsory)	4	6
		th.	Total:	30
	TEOE 00	5 th Semester		-
2		Soil Mechanics I (Compulsory) Building Construction II (Compulsory)	5	5 5
3		Structural Analysis II (Compulsory)	6	5
4		Road Engineering I (Compulsory)	4	5
5		Groundwater Hydraulics and Hydrology (Compulsory)	5	5
6	TY2200	Water Supply and Sewerage Systems (Compulsory)	4	5
		c th c	Total:	30
1	TF0700	6 th Semester	-	-
2		Soil Mechanics II (Compulsory) Reinforced Concrete I (Compulsory)	5	5 5
3		Metal Structures I (Compulsory)	5	5
4		Dynamics of Structures I (Compulsory)	4	5
5		Road Engineering II (Compulsory)	4	5
6	TY2300	Environmental Engineering (Compulsory)	5	5
		⇒th c	Total:	30
1	TE1400	7 th Semester	5	5
2		Reinforced Concrete II (Compulsory) Metal Structures II (Compulsory)	4	5
3		Construction Management (Compulsory)	5	5
4		Transportation Planning (Compulsory)	3	4
5		Coastal and Harbour Engineering (Compulsory)	5	5
6		Elective Course 1		3
7		Elective Course 2		3
		DSE	Total:	30
1	TE1300	Theory of Disks and Plates (Compulsory Specialization Course)	3	3
2	TE2000	Numerical Methods in Structural Analysis I (Compulsory Specialization Course)	3	3
		DHEE	1 -	
1		Engineering Hydrology (Compulsory Specialization Course)	3	3
2	114/00	Environmental Impact Assessment (Compulsory Specialization Course) DGE	3	3
1	ΤΓ2400	Deep Foundations (Compulsory Specialization Course)	3	3
2		Engineering Seismology and Earthquake Engineering (Compulsory Specialization Course)	3	3
_		DTPM		
1	ΤΣ0300	Construction Equipment and Methods (Compulsory Specialization Course)	3	3
2	ΤΣ0700	Design and Construction of Road Pavements and Laboratory Testing	3	3
	l	(Compulsory Specialization Course)		Ц

DEPARTMENT OF CIVIL ENGINEERING UNDERGRADUATE INDICATIVE CURRICULUM

	8 th Semester							
1	ΤΓ1100	Foundations- Retaining Walls & Geotechnical Structures (Compulsory)	5	5				
2	TE1900	Reinforced Concrete III	5	6				
3	ΤΣ4300	Project Management	4	5				
4		Elective Course 1 (Compulsory Specialization Course)		4				
5		Elective Course 2 (Compulsory Specialization Course)		4				
6		Elective Course 3 or Internship for Civil Engineers		3				
7		Elective Course 4		3				
	•		Total:	30				
	1	DSE						
1		Special Topics in Building Construction	3	3				
2		Theory of Shells	3	3				
3		Composite Buildings and Bridges	3	3				
4		Prestressed Concrete (Compulsory Specialization Course)	3	4				
5		Dynamics of Structures II (Compulsory Specialization Course)	3	4				
6		Numerical Methods in Structural Analysis II	3	3				
7		Special Topics in Construction Materials	3	3				
8		Fire Protection of Building Structures	3	3				
9		Prefabricated Concrete Structures	3	3				
10		Programming Techniques and Use of Specialized Software in Structural Design	3	3				
11	TE5100	Structural Aluminium	3	3				
		DHEE						
1		Hydraulics of Groundwater Flows	3	3				
2	TY1600	Numerical Methods in Hydraulics and Hydraulic Engineering	3	3				
3	TY2000	Design and Construction of Ports (Compulsory Specialization Course)	3	4				
4		Hydraulics of Open Channels and Rivers	3	3				
5		Groundwater Resources Exploitation and Protection	3	3				
6		Environmental and Energy Policy in the European Union	3	3				
7	TY4600	Design of Water Supply and Sewerage Systems (Compulsory Specialization Course)	3	4				
8	TY5000	Coastal Protection Works and Coasts	3	3				
		DGE						
1	TF0600	Laboratory and Field Tests in Soil Mechanics (Compulsory Specialization Course)	3	4				
2	TF0900	Photogrammetry - Geoinformation Systems	3	3				
3	ΤΓ1200	Engineering Surveying	3	3				
4		Rock Mechanics I (Compulsory Specialization Course)	3	4				
5	ТГ2900	Special Topics in Computer-aided Drafting	3	3				
6	ТГ3700	Geotechnical Earthquake Engineering	3	3				
		DTPM						
		Basic Principles of Economic Theory and Policy	3	3				
2		Traffic Control	3	3				
3		Elements of Law and Engineering Legislation	3	3				
4		Railway Infrastucture (Compulsory Specialization Course)	3	4				
5		Transportation Systems (Compulsory Specialization Course)	3	4				
6		Airport Design and Construction	3	3				
7	ΤΣ3400	Management of Construction Companies	3	3				
8	ΤΣ4400	Management Information Systems for Engineering Projects	3	3				
	ALL DIVISIONS							
1	ПА0100	Internship for Civil Engineers	3	3				

DEPARTMENT OF CIVIL ENGINEERING UNDERGRADUATE INDICATIVE CURRICULUM

		9 th Semester					
1		Elective Course 1 (Compulsory Specialization Course)		5			
2		Elective Course 2 (Compulsory Specialization Course)		5			
3		Elective Course 3		4			
4		Elective Course 4		4			
5		Elective Course 5		4			
6		Elective Course 6		4			
7		Elective Course 7		4			
	•		Total:	30			
		DSE					
1	TE0300	Environmental Architectural Design of Buildings	3	4			
2	TE1700	Energy-Saving Design in Buildings	3	4			
3	TE2600	Concrete Bridges	3	4			
4	TE2800	Antiseismic Technology and Behaviour of Concrete (Compulsory Specialization Course)	3	5			
5	TE3000	Steel Bridges	3	4			
		Seismic Analysis and other Specifics of Metal Structures Design	_	_			
6	TE3100	(Compulsory Specialization Course)	3	5			
7	TE3700	Behaviour and properties of reinforced concrete	3	4			
8		Masonry Structures	3	4			
9		Experimental Structural Engineering	3	4			
		Restoration of Concrete and Masonry Buildings	3	4			
		Timber Structrures	3	4			
		Elastoplastic Analysis of Structures	3	4			
		Engineering Performance of Materials	3	4			
13	164700	DHEE	3				
1	ΤΓY002		3	4			
		Natural Hazards : Analysis and Management of Risk					
		Design and Construction of Dams	3	4			
3		Hydrometry and Hydraulic Models	3	4			
4		Water Resources Management (Compulsory Specialization Course)	3	5			
5		Coastal Oceanography	3	4			
6		Geothermal Energy	3	4			
7	TY3300	Unsteady Flows	3	4			
8	TY4000	Design and Construction of Irrigation and Drainage Systems	3	5			
		(Compulsory Specialization Course)					
9	TY4100	Environmental Chemistry, Microbiolgy and Biochemistry	3	4			
		Waste Treatment Technology	3	4			
		Marine Structures	3	4			
		Water Quality Mathematical Models for Ecosystems	3	4			
13	TY5100	Water and Wastewater Treatment	3	4			
		DGE					
1	TГ1500	Special Topics in Rock Mechanics and Engineering Geology	3	4			
2	ΤΓ1700	Deep Excavations and Earth Retaining Structures (Compulsory Specialization Course)	3	5			
3	ΤΓ2100	Geomatics	3	4			
4	TГ2200	Environmental Engineering Geology	3	4			
5	TГ2300	Soil Mechanics III	3	4			
6	TГ2600	Environmental Geotechnical Engineering	3	4			
7	TГ3500	Photointerpretation - Remote Sensing	3	4			
8		Special Issues of Photogrammetry	3	4			
		Numerical Methods in Geotechnical Engineering (Compulsory Specialization Course)	3	5			
10	TГ3900	Landslides - Fills - Soil Improvement Methods	3	4			
11	TГY002	Natural Hazards : Analysis and Management of Risk	3	4			
	TГY003	Design and Construction of Dams	3	4			
	•	DTPM	•				
1	ΤΣ1400	Investment Evaluation	3	4			
2	ΤΣ1500	Management of Construction Sites (Compulsory Specialization Course)	3	5			
3	ΤΣ1800	Transportation Economics	3	4			
4		Public Transportation (Compulsory Specialization Course)	3	5			
5		Transport and Environment	3	4			
6	ΤΣ3500	Management of Road Operation and Maintenance	3	4			
7	ΤΣ3900	Regional Development II	3	4			
8	ΤΣ4100	Road Safety	3	4			
		10 th Semester		-			
-	l	Diploma Thesis	Takati	30			
<u> </u>			Total:	30			