

**MEMO:**

.....	Elective course of the Division Geotechnical Engineering	.....	Inter-divisional Elective course
.....	Elective course of the Division of Structural Engineering	<b>[CC]</b>	Compulsory Course for the Division
.....	Elective course of the Division of Transportation and Project Management	(NO)	Not Offered this academic year
.....	Elective course of the Division of Hydraulics and Environmental Engineering		

**GROUPS OF ELECTIVE COURSES - 7<sup>th</sup> SEMESTER**

GROUP CODE	COURSE CODE – COURSE TITLE
7.1	ΤΓ2500 - Engineering Seismology & Earthquake Engineering <b>[CC]</b>
	TE2000 - Numerical Methods in Structural Analysis I <b>[CC]</b>
	ΤΣ0700 - Design and Construction of Road Pavements and Laboratory Testing <b>[CC]</b>
	TY4700 - Environmental Impact Assessment <b>[CC]</b>
7.2	ΤΓ2400 - Deep Foundations <b>[CC]</b>
	TE1300 - Theory of Disks and Plates <b>[CC]</b>
	ΤΣ0300 - Construction Equipment and Processes <b>[CC]</b>
	TY0600 - Engineering Hydrology <b>[CC]</b>

**GROUPS OF ELECTIVE COURSES - 8<sup>th</sup> SEMESTER**

GROUP CODE	COURSE CODE – COURSE TITLE
8.1	ΤΓ0600 - Laboratory and Field Tests in Soil Mechanics <b>[CC]</b>
	TE2300 – Pre-stressed Concrete <b>[CC]</b>
	ΤΣ3400 - Management of Construction Companies
	TY4600 - Design of Water Supply and Sewerage Systems <b>[CC]</b>
8.2	ΤΓ1800 - Rock Mechanics I <b>[CC]</b>
	TE2400- Dynamics of Structures II <b>[CC]</b>
	ΤΕ1400 – Basic Principles of Economic Theory and Policy
	ΤΣ2800 – Philosophy of Technology (NO)
	TY2500 - Hydraulics of Open Channels and Rivers
8.3	ΤΓ3700 - Geotechnical Earthquake Engineering
	TE2100 - Theory of Shells
	TE3500 - Fire Protection Of Building Structures
	ΤΣ2100 - Transportation Systems <b>[CC]</b>
	TY4300 - Groundwater Resources Exploitation and Protection
	TY5000 - Coastal Protection Works and Coasts
8.4	ΤΓ0900 - Photogrammetry - Geoinformation Systems
	TE1200 - Special Topics in Building Construction
	TE5100 – Structural aluminium
	ΤΣ0600 - Traffic Control
	TY4400 - Environmental and Energy Policy in European Union
8.5	ΤΓ1200 - Engineering Surveying
	TE2200 - Composite buildings and bridges
	TE2900 - Special Topics in Construction Materials
	TE4800 – Programming Techniques and Use of Specialized Software in Structural Design
	ΤΣ4400 - Management Information Systems for Engineering Projects
	ΤΣ3200 - Airport Planning and Construction
	TY2000 - Design and Construction of Ports <b>[CC]</b>
8.6	ΤΓ2900 - Special Topics in Computer-aided Drafting
	TE4000 - Prefabricated Concrete Structures
	ΤΣ1000 - Elements of Law and Engineering Legislation
	TY1100 - Hydraulics of Groundwater Flows
8.7	TE2500 - Numerical Methods in Structural Analysis II
	ΤΣ1200 - Railway Infrastructure <b>[CC]</b>
	TY1600 - Numerical Methods in Hydraulics and Hydraulic Works
8.8	ΠΑ0100 – Placement for Civil Engineers

**GROUPS OF ELECTIVE COURSES - 9<sup>th</sup> SEMESTER**

GROUP CODE	COURSE CODE – COURSE TITLE
9.1	TF3900 - Landslides – Earth Cuts & Fills – Soil Improvement Methods
	TE3900 - Experimental Structural Engineering
	TE4700 - Engineering Performance of Materials
	TY2700 - Coastal Oceanography (NO)
	TY5100 - Processes of Water Treatment and Wastewater
9.2	TF1700 - Deep Excavations and Earth Retaining Structures [CC]
	TE3100 - Antiseismic Calculation & Special Topics in Steel Structures [CC]
	TS1400 - Investment Evaluation
	TY3200 - Geothermal Energy
9.3	TF2100 – Geomatics
	TF2200 – Environmental Engineering Geology
	TE3000 – Steel Bridges (NO)
	TE3200 - Advanced Topics in Concrete Structures (NO)
	TE3800- Masonry Structures
	TE4300 - Elastoplastic Analysis of Structures
	TS3300 - Transport and Environment
TY4200 - Wastewater Treatment Engineering	
9.4	TF3600 - Special Topics in Photogrammetry
	TE2600 - Concrete Bridges
	TE4100 - Restoration of Concrete and Masonry Buildings
	TS2900 – Philosophy of Technology II (NO)
	TY3300 - Unsteady Flows
9.5	TF3300 - Tunnels and Underground Constructions
	TE3700 - Behaviour and properties of reinforced concrete
	TS1900 - Public Transportation [CC]
	TY0300 - Hydrometric and Hydraulic Models
9.6	TF3500 - Photointerpretation – Remote Sensing
	TE1700 - Energy-Saving Design in Buildings
	TE3400 - Inelastic Analysis of Reinforced Concrete Structures (NO)
	TS4100 - Road Safety
	TY4600 - Design and constructions of Irrigation & Drainage Systems [CC]
9.7	TF2600 - Environmental Geotechnical Engineering
	TE4200 - Timber structures
	TS1500 - Management of Construction Sites [YE]
	TFY002 - Natural Hazards : Analysis and Management of Risk
	TFY003 - Design and construction of Dams
9.8	TF2300 - Soil Mechanics III
	TE2800 - Antiseismic Technology and Behaviour of Concrete [CC]
	TS1800 – Transportation Economics
	TY4500 - Marine Structures
	TY4900 - Water Quality Mathematical Models for Ecosystems (NO)
9.9	TF3800 - Numerical Methods in Geotechnical Engineering I [CC]
	TE0300 - Environmental Architectural Design of Buildings
	TS3500 - Management of RoadWork
	TY4100 - Environmental Chemistry, Microbiology and Biochemistry
9.10	TF1500 - Special Topics in Rock Mechanics and Engineering Geology
	TE2400- Dynamics of Structures II [CC]
	TS3900 - Regional Development II
	TY1700 - Water Resources Management [CC]