Course Title-Course Code: CE 521 THEORY OF ELASTICITY					Name of the Programme:CIVIL ENGINEERING				
Semester	Teaching Metho				ods			Credits	
	Lecture	Recite	Lab.	Field Study	нw	Other	Total	Credit	ECTS Credit
1-2	42	0	0	0	0	146	188	3	7.5
Language	Turkish								
Compulsory / Elective	Elective								
Prerequisites									
Course Contents	Vectors, matrices and tensors. Kinematics of a nonlinear elastic continuum. Finite deformation. Stress tensors and motion. Constitutive relations. Two dimensional elasticity problems. Torsion of prismatic members.								
Course Objectives	To apply the basic principles of mechanics in solids and in an elastic continuum.								
Learning Outcomes and Competences	To understand the stress and strain relations in nonlinear elastic bodies.								
Textbook and /or References	Stephen Timoshenko, Theory of Elasticity, McGraw-Hill Erdoğan Şuhubi, Sürekli Ortamlar Mekaniği, İTÜ, 1994								
Assessment Criteria							Ij a	f any,mar s (X)	k Percent (%)
	Midterm Exams X								40
	Quizzes								
	Term Paper								
	Laboratory Work    Other								
	Final Ex	am						Х	60
Instructors	Prof. Dr. Tekin GÜLTOP								