

Course Title-Course Code: CE 542 PRESTRESSED CONCRETE							Name of the Programme:CIVIL ENGINEERING		
Semester	Teaching Methods							Credits	
	Lecture	Recite	Lab.	Field Study	H W	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	Introduction. Materials. Partial loss of prestress force. Flexural analysis and design. Composite beams. Shear and Torsion. Bonding. Continuous beams and frames. Circular prestress and nuclear power station. Axially loaded members. Modeling of creep and shrinkage.								
Course Objectives	The courses is designed to give analysis of prestress structures to the student.								
Learning Outcomes and Competences	Understanding of analysis of prestress structures, learning of the loss of friction and multi degree of freedom systems, earthquake resistant design, understanding Turkish code of practice (A.B.Y.Y.H.Y)								
Textbook and /or References	1)A.H.Nilson, "Design of Prestressed Concrete," J.Wiley&Sons,1987 2)A.C. Naaman, "Prestressed Concrete Analysis and Design," McGraw Hill, 1982 3)TY.Lin,NH.Burns,"Design of Prestressed Concrete Structures" J.Wiley& Sons, 1981 4)TS 3233 "Öngerilmeli Beton Yapıların Hesap ve Yapım Kuralları" Ankara,1979								
Assessment Criteria								<i>If any,mark as (X)</i>	Percent (%)
	Midterm Exams							X	50
	Quizzes								
	Homeworks								
	Projects								
	Term Paper								
	Laboratory Work								
	Other								
	Final Exam							X	50
Instructors	Prof.Dr.Siddik ŞENER								