Course Title-Course Code: CE 512 NUMERICAL Na METHODS IN CIVIL ENGINEERING						Name of the Programme:CIVIL ENGINEERING				
Semester	Teaching Metho				ods			C	Credits	
	Lecture	Recite	Lab.	Field Study	нw	Other	Total	Credit	ECTS Credit	
1-2	42	0	0	0	28	118	188	3	7.5	
Language	Turkish									
Compulsory / Elective	Elective									
Prerequisites	-									
Course Contents	Algebra of matrix, non-linear equations, Interpolation, Numerical integral and differentiations, Solutions of simple differential and partial differential equations with finite differences, Introduction to finite element and finite volume methods, Applications for civil engineering									
Course Objectives	Solution of civil engineering problems using numerical methods									
Learning Outcomes and Competences	Learning of widely used various numerical methods and applying these methods to solve civil engineering problems									
Textbook and /or References	Akai, T.J.,1994, "Applied Numerical Methods for Engineers", 410 p., John Wiley and Sons Mathews, J.H., 1992, "Numerical Methods for Mathematics, Science and Engineering", 646 p., Prentice-Hall International Smith, G.D., 1993, "Numerical Solution of Partial Differential Equations: Finite Difference Methods", 337 p., Clarendon Press, Oxford									
Assessment Criteria								If any,mar as (X)	k Percent (%)	
	Midterm Exams							Х	30	
	Quizzes									
	Homeworks							Х	10	
	Projects Term Paper Laboratory Work Other									
	Final Exam							Х	60	
Instructors	Asst. Prof. Dr. Müsteyde BADUNA KOÇYİĞİT									