

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM									
Course Code and ELEMENT APPI ENGINEERING	LICATIONS IN	5006 FINITE STRUCTURAL		Department of: CIVIL ENGINEERING / MASTER PROGRAMME					
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective		
Atumn/Spring	3	0	3	3	5	Turkish	Optional		
Prerequi	isite (s)								
Instructor		Mail : Web :							
Course Assistant		Mail : Web :							
Groups /	Classes								
Course Aim		To increase the analysis skills of graduates with developing technology and to increase the analysis of more complex systems with accurate modeling methods.							
Course Goals		It is aimed that graduates will be able to use at least one finite element package program at a good level. In this context, it is aimed that they will have the capacity to model any structure they may encounter.							
Course Learning Outs and Proficiencies		 The student learns the basic principles of modeling The student learns to model complex structures The student learns how to perform linear and nonlinear analysis. The student learns to interpret analysis results. 							
Course Basic a Conte	•	 Süleyman Adanur , Şevket Ateş, Ahmet Can Altunışık ; SAP 2000 Applications in Civil Engineering, Dynamic Academy, 2018 Ahmet Can Altunışık , Murat Günaydın , Ali Fuat Genç , Fatih Yesevi Okur, ANSYS Applications in Civil Engineering, Dynamic Academy, 2018 							
Methods of Give a Lecture		Face to Face							



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Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate				
		Midterm Exam	X	50				
		1. Quiz						
		2. Quiz						
		3. Quiz						
		4. Quiz						
		Oral Examination						
		Practice Examination						
		(Laboratory, Project etc.)						
		Final Exam	X	50				
Semester Course Plan								
Week	Subjects							
1	Use of software packages in solving engineering structures, points to be considered in using							
	software packages, assumptions used in modeling structural elements.							
2	Detailed information about commands and their short applications							
3	Simple beam model and its computational comparison according to basic strength laws							
<u>4</u> 5	Reinforced concrete frame modeling							
6	Linear elastic analysis Modal analysis, mass participation ratio calculation and interpretation of results							
7	Creating a masonry building model							
8	Midterm Exam							
9	Parameters and their purposes in nonlinear analysis							
10	Nonlinear analysis in masonry structures							
11	Historical minaret model and analysis							
12	Historical bridge model and analysis							
13	Historical mosque model and analysis							
14	Free modeling and analysis							