

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM									
Course Code an LINES THEORY	045 / FRACTU	RE	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		
Prerequ	Prerequisite (s)								
Instructor		Assoc. l	Prof. Dr.	Alper POI	Mail : alperpolat@munzur.edu.tr Web :				
Course Assistant		Mail: Web:							
Groups / Classes									
Course Aim		To provide an alternative to the students about slab solution by teaching the solution of plates in different forms and under various loads according to limit states.							
Course Goals		Solution of small deflection plates according to the theory of elasticity. It is aimed to create alternative methods by solving rectangular plates with and without beams, bevel plates, polygonal, triangular and circular plates with the theory of fracture lines.							
Course Learn Profici		 Students will be able to solve small deflection plates according to the theory of elasticity. Students will be able to calculate different types of plates under various load effects according to limit states. Students will be able to calculate various types of plates using fracture line theory. 							
Course Basic a Cont	•	 Prof. İlhan Berktay, Betonarme Plaklarda Kırılma Çizgileri Teorisi, 1988 							
Methods of G	ive 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.)		- 0				
		Final Exam	X	50				
		Semester Course	Plan					
Week		Subjects						
1	Solution of small deflected plates according to the theory of elasticity							
2	Introduction to the plastic account							
3	Fracture line theory							
4	Analysis with the virtuous work method							
5	Analysis by static equilibrium method							
6	Orthotropic reinforced plates and affinity theorems							
7	Corner effects							
8	Midterm exam							
9	Superposition rule							
10	Investigation of different types of plates by fracture line theory							
11	Rectangular plates with and without beams							
12	Bevel plaques							
13	Polygonal, triangular and circular plates							
14	Application							