

## T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM										
Course Code as BUILDING MA		31 TRADITIONAL		Department of: CIVIL ENGINEERING / MASTER'S DEGREE PROGRAM WITH THESIS						
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective			
Fall	3	0	3	3	5	Turkish	Optional			
Prerequ	Prerequisite (s)									
Instructor		Prof. Dr. Murat Dal				Mail: muratdal@munzur.edu.tr Web:				
Course Assistant						Mail: Web:				
Groups	/ Classes									
Course Aim		In the process of preservation and repair of historical buildings, it is aimed to know the traditional building materials technology and construction techniques, to determine the physical, chemical and mechanical properties of building materials such as stone, brick, wood, adobe and metal, including plaster and mortar of historical buildings, to evaluate the analysis results and to develop new solution suggestions.								
Course Goals										
Course Learn Profici	ning Outs and iencies	Can recognize traditional building materials, Knows the analysis of traditional building materials, Knows the physical, chemical and mechanical properties of traditional building materials. Knows the physical properties of traditional building materials. Knows the chemical properties of traditional building materials. Knows the mechanical properties of traditional building materials.								
	and Auxiliary texts	<ul> <li>Doğal Taşlardaki Bozunmalar, Yrd.Doç.Dr. Murat DAL, Mimarlık Vakfı İktisadi İşletmesi, 2012.</li> <li>Malzeme Bilimi, Prof. Dr. Kaşif ONARAN, Bilim Teknik Yayınevi, 1993.</li> <li>Malzeme Bilimi Prob. ve Çözümleri, Prof. Dr. Kaşif ONARAN, Bilim Teknik Yay, 1993.</li> <li>Malzeme Bilimi Ders Notları, Prof. Dr. Ferruh KOCATAŞKIN, İ.T.Ü. İnş. Fak. Matbaası.</li> </ul>								



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	<ul> <li>Cisimlerin Yapısı ve Özelikleri, Prof. Bekir POSTACIOĞLU, İ.T.Ü. Yayını, 1981.</li> <li>Malzemelerin Yapı ve Özelikleri, Cilt I, İç Yapılar, Cilt III, Mekanik Özelikler, Yazanlar: Moffatt, Pearsall ve Wulff, Çevirenler: K. Onaran ve B. Erman, İTÜ Yayını, 1982 ve 1978.</li> <li>Civil Engineering Materials, Ed. N. Jackson, 1984.</li> <li>The Nature and Properties of Engineering Materials, Zbigniev D. Jastrazebski, 1987.</li> </ul>
Methods of Give a Lecture	

Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate	
		1. Quiz	X	50	
		2. Quiz			
		3. Quiz			
		4. Quiz			
		5. Quiz			
		Oral Examination			
		<b>Practice Examination</b>			
		(Laboratory, Project etc.)	<b>T</b> 7	<b>50</b>	
		Final Exam	X	50	
		Semester Course	Plan		
Week	Subjects				
1	Knowing traditional structures, materials, technologies and techniques in the process of preservation and repair of historical structures				
2	Knowing traditional structures, materials, technologies and techniques in the process of repair of historical structures				
3	Determining restoration intervention decisions by analyzing the structural details and other features (restitution, damage detection, material analysis) of traditional building materials in the process of preservation and repair of historical structures with different regions, periods and architectural functions, which are registered cultural assets.				



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4	Physical properties of building materials such as stone, brick, wood, adobe and metal, including plaster and mortar, belonging to historical structures belonging to the period and region,		
5	Chemical properties of building materials such as stone, brick, wood, adobe and metal, including plaster and mortar, belonging to historical structures belonging to the period and region,		
6	Mechanical properties of building materials such as stone, brick, wood, adobe and metal, including plaster and mortar, belonging to historical structures belonging to the period and region,		
7	Types of stone used in historical structures		
8	Midterm Exam		
9	Examination of stone deterioration in historical structures		
10	Cleaning and protection of stone surfaces		
11	Use of metals as traditional building materials		
12	Protection and methods of wood types used as traditional building materials.		
13	Protection of wood used as traditional building materials		
14	General Exam-Presentations		