

Vocational School / Architectural Restoration
2024 - 2025 Academic Year
CONSERVATION II
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
CONSERVATION II	MRS2245190	Spring Semester	2+0	2	2
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Berk KESKİN				
Name of Lecturer(s)	Assist.Prof. Berk KESKİN				
Assistant(s)					
Aim	To learn about conservation process of materials are used on the architectural structure.				
Course Content	This course contains; 1.h: Introduction, course aims, conservation I (Review),2.h: Rock types, structure of minerals,3.h: General characteristics and classification of stone as architectural building components,4.h: Physical properties of stone,5.h: Basic stone damage (frost, patina, etc.) and diagnostic methods,6.h: Stone surface cleaning and repair operations I (plant cleaning, blasting operations),7.h: Stone surface cleaning and repair procedures II (integration, making repairs, hardening),8.h: General properties and microstructure of woods,9.h: Mechanical properties of wood, wood products,10.h: Biological damage in wood: fungi, insects,11.h Physical and mechanical damage to the wood,12.h: Introduction to wood repair, sampling and cleaning and conservation actions,13.h: Brick, plaster deterioration and conservation processes,14.h: Deterioration in reinforced concrete structures (Basics).				
Course Learning Outcomes				Teaching Methods	Assessment Methods
1) To explain general properties of stones					
2) To interpret how to conserve stones					
3) To explain general properties of woods					
4) To interpret how to conserve woods					
5) To explain how to conserve reinforced concrete and mortars.					
Teaching Methods					
Assessment Methods					
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	1.h: Introduction, course aims, conservation I (Review)				
2	2.h: Rock types, structure of minerals				
3	3.h: General characteristics and classification of stone as architectural building components				
4	4.h: Physical properties of stone				
5	5.h: Basic stone damage (frost, patina, etc.) and diagnostic methods				
6	6.h: Stone surface cleaning and repair operations I (plant cleaning, blasting operations)				
7	7.h: Stone surface cleaning and repair procedures II (integration, making repairs, hardening)				
8	8.h: General properties and microstructure of woods				
9	9.h: Mechanical properties of wood, wood products				
10	10.h: Biological damage in wood: fungi, insects				
11	11.h Physical and mechanical damage to the wood				
12	12.h: Introduction to wood repair, sampling and cleaning and conservation actions				
13	13.h: Brick, plaster deterioration and conservation processes				
14	14.h: Deterioration in reinforced concrete structures (Basics)				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources	
There are lecture notes based on various sources.1) John Ashurst, Francis G Dimes, "Conservation of Building and Decorative Stone", 2nd Edition, Butterworth Heinemann, 1998	
2) Kemal Kutgün Eyüpgiller, Lory Zakar, "Mimari Restorasyon Koruma Teknik ve Yöntemleri", Yapı Endüstri Merkezi Yayınları, 2015	
3) Reha Günay, "Geleneksel Ahşap Yapılar Sorunları ve Çözüm Yolları", Birsen Yayıncılık, 2002	
4) Ayşe Gülçin Küçükaya, "Yapı Taşlarının Restorasyonu", Yazarın Kendi Yayını, 2014.	