

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

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
CONSERVATION I	MRS2145150	Fall 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	learn how to recognize the impact of the deterioration in the structure that plays an important role in conservartion.				
Course Content	This course contains; Introduction. Prooprties of mansory building,Deformation of mansory building and conservation methods,Biological, climatic, human-induced damage on materials used in mansory structures and general methods of conservation,Soil and foundation conservation techniques,Wall materials and general conservation applications,Vaults, arches, domes deterioration seen in conservation actions,Footing deterioration seen in the types and conservation practices (strapping),General deterioration types and conservation practices seen in the roof material,Wood and stone pavement deterioration and conservation-based applications,Fundamental of Corrosiom and oxidatoin of metals,Corrosion of architectural metals and alloys,Protection from corrosion,Corrosion of Bronze, Brass, Lead, Silver and similar metallic materials,Exercies.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Explain visual and mechanical deterioration in architectural structures					
2. Explain the conservation process in architectural structures					
3. Explain the basic methods of conservation chemistry.					
4. Interpret architectural metal and alloy degradation and conservation process					
Teaching Methods					
Assessment Methods					
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduction. Prooprties of mansory building				
2	Deformation of mansory building and conservation methods				
3	Biological, climatic, human-induced damage on materials used in mansory structures and general methods of conservation				
4	Soil and foundation conservation techniques				
5	Wall materials and general conservation applications				
6	Vaults, arches, domes deterioration seen in conservation actions				
7	Footing deterioration seen in the types and conservation practices (strapping)				
8	General deterioration types and conservation practices seen in the roof material				
9	Wood and stone pavement deterioration and conservation-based applications				
10	Fundamental of Corrosiom and oxidatoin of metals				
11	Corrosion of architectural metals and alloys				
12	Protection from corrosion				
13	Corrosion of Bronze, Brass, Lead, Silver and similar metallic materials				
14	Exercies				
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources	
1) Kemal Kutgün Eyüpgiller, Lory Zakar, "Mimari Restorasyon Koruma Teknik ve Yöntemleri", Yapı Endüstri Merkezi Yayınları, 2015) John Ashurst, Francis G Dimes, "Conservation of Building and Decorative Stone", 2nd Edition, Butterworth Heinemann, 1998	
2) Uluengin, M. B., "Mimari Metaller Özellikleri, Bozulma Nedenleri, Koruma ve Restorasyon Teknikler", Birsen Yayıncılık	
3) Reha Günay, "Geleneksel Ahşap Yapılar Sorunları ve Çözüm Yolları", Birsen Yayıncılık, 2002	
4) Aysel Gülçin Küçükçaya, "Yapı Taşlarının Restorasyonu", Yazarın Kendi Yayını, 2014.	
5) D. A. Jones, "Principles and Prevention of Corrosion", 2nd ed., Prentice-Hall, 1996	