



## **The University of Jordan**

**Faculty:** Archaeology & Tourism  
**Department:** Cultural Resources Management and Conservation  
**Semester:** First Semester  
**Academic Year:** 2015/2016  
**Course Name:** Conservation and Restoration of Historical Buildings  
**Credit hours:** 3 hours  
**Elective or Compulsory requirement course:** Compulsory requirement

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### **Course Description**

The course reviews basic principles, methods and techniques used in the conservation and restoration of archaeological structures and historic buildings. Emphasis will be placed on the understanding of the materials and systems of ancient structures and of the factors and processes leading to deterioration as well as on how to choose appropriate strategies, techniques and materials for specific conservation and restoration practices.

### **Learning Objectives**

1. To examine the material and systems of ancient buildings.
2. To explain the deterioration processes and factors and present the appropriate conservation strategies accordingly.
3. To demonstrate the techniques and materials of restoration traditionally used for ancient buildings.
4. To enable students to acquire the basic skills in conservation and restoration of ancient buildings.

### **Intended Learning Outcomes (ILOs):**

Successful completion of the course should lead to the following outcomes:

**A. Knowledge and Understanding:** Student is expected to

**A1-** Show a basic knowledge of the nature of materials composing a given structure.

**A2-** Understand the different factors and processes involved in the deterioration of historical and archaeological buildings.

**A3-** Learn how to determine the deterioration factors and processes through the understanding of the observed symptoms.

**A4-** Learn how to determine the appropriate technique of conservation and material of restoration.

**B. Intellectual Analytical and Cognitive Skills:** Student is expected to

**B1-** Demonstrate the ability to describe and to analyze observed phenomena.

**B2-** Demonstrate the ability to build links between symptoms and causes.



## Learning and Evaluation Methods

ILO/s	Learning Methods	Evaluation Methods
	Lectures, presentations, laboratory training, discussions and field trips.	Exams, presentations of individual or group works.

## Course Contents

Content	Week	ILO/s
General framework: definitions, concepts, basic principles, history and aims of buildings Conservation and restoration	Week 1	Lectures and discussion
Standards and Guidelines in the conservation-Restoration of historical and archaeological buildings	Week 2	Lectures, discussion and data projection
Materials and techniques used in ancient buildings	Week 2 and 3	Lecture, discussion and PowerPoint presentations
Main factors implicated in buildings' stress and deterioration.	Week 4-5	Lecture, discussion and PowerPoint presentations
Methods and techniques used in diagnosis and explanation of building stress and deterioration	Week 6 and 7	Lecture, discussion and PowerPoint presentations
Methods and techniques used in removing (or reducing) the causes of stress and deterioration	Week 8	Lecture, discussion and PowerPoint presentations and laboratory demonstration
Methods and techniques used in Conservation and Restoration of buildings	Week 9-11	Lecture, discussion and field trip
Methods and techniques used in reconstruction and rehabilitation	Week 12-14	Lecture, discussion and PowerPoint presentations

\*some adjustments could happen according to the weeks due to the exams and other academic activities.



## **Evaluation**

<b>Evaluation</b>	<b>Point %</b>	<b>Date</b>
<b>Midterm Exam</b>	30	April 1 <sup>st</sup>
<b>Individual / group work presentations</b>	15	Week of 19-24 April
<b>Participation</b>	5	
<b>Final Exam</b>	50	In May

## **Main References:**

- 1-Stovel, H. 1998: Risk Preparedness: A Management Manual for World Cultural Heritage. Rome: ICCROM.
- 2-Borrelli, E. 1999: Conservation of Architectural Heritage, Historic structures and Materials. ARC Laboratory Handbook: Binders. Rome: ICCROM.
- 3-Joffroy, Th. 2009: Traditional Conservation practices in Africa. Rome: ICCROM
- Elizabeth J. Reitz and Elizabeth S. Wing. 2008: Zooarchaeology (Cambridge Manuals in Archaeology). Cambridge University Press; 2d edition
- 4-Domaslowski, W. et al. 1982 : La conservation Preventive de la Pierre. Paris: UNESCO
- 5-Artioli, G. 2010: Scientific methods and cultural Heritage. Oxford: Oxford University Press
- 6-Jokilehto, J. I. 1986: A History of Architectural Conservation. Ph-D Thesis. The University of York – England
- 7-La Maçonnerie de pierre. Guide technique 6. Québec: Ville de Québec
- 8-Manuel de sensibilisation à la restauration de la maçonnerie. France: Ministère de la culture et de la communication. 2003
- 9-Guide pour la conservation des œuvres d'arts public. Québec. Gouvernement du Québec. 2009
- 10-Recommendations for the analysis, conservation and structural restoration of architectural Heritage. Paris. ICOMOS. 2001
- 11-Other references (in French and English) available upon request.

Course Teacher  
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