



University/Academy: Arab Academy for Science, Technology & Maritime Transport
Faculty/Institute: College of Engineering & Technology
Program: B.Sc. Architectural Engineering and Environmental Design

Form no. (12): Course Specification

1- Course Data

Course Code: AR 523	Course Title: Historical Preservation & Conservation	Academic Year/Level: 5th year/10th semester
Specialization: Architecture	No. of Instructional Units Credit 2 Lecture 1 Tutorial 3	Prerequisite None

2- Course Aim

The course provides a link between theories and practice of heritage conservation. It presents an overview of history, ethics and philosophies of conservation coupled with an introduction of conservation practice.

The course aims to:

- Link principles and practice in the context of a values-based approach to heritage conservation.
- Become familiar with the standards and guidelines for the conservation of historic places.
- Demonstrate the importance of survey skills in the development of a conservation plan.
- Provide an overview of the administrative and regulatory context for the rehabilitation of buildings.

3- Intended Learning Outcomes

a- Knowledge and Understanding	Through knowledge and understanding, students will be able to: <ul style="list-style-type: none">• Characterize values and significance of culture heritage.• Link between theory and practice of heritage conservation.• Develop a critical understanding of the concept of 'heritage', the principles of cultural heritage management and their cultural and consequences.• Identify the basic principles, concepts and philosophy of cultural heritage management and conservation and place these within a historical and cultural context.• Understand the role of international standards regarding the practices of cultural heritage management and conservation.• Identify the different steps of conservation management: survey and interventions.
b- Intellectual Skills	Through intellectual skills, students will be able to: <ul style="list-style-type: none">• Differentiate between different philosophies regarding conservation.• Analyze the different phases of building conservation management.
c- Professional Skills	Through professional and practical skills, students will be able to: <ul style="list-style-type: none">• Prepare architectural reports.• Collect information from different resources to support scientific thinking and opinion.
d- General Skills	Through general and transferable skills, students will be able to: <ul style="list-style-type: none">• Write structured reports in accordance with standard guidelines.• Present research in seminars or group meetings, discuss findings, defend their ideas,• Communicate effectively in writing, verbally and through drawings and models.• Work coherently and successfully as a part of a team in projects, assignments, etc.• An appreciation and ability to self and lifelong learning.

4- Course Content

Week No.1	INTRODUCTION: Important definitions: Conservation, Restoration and Rehabilitation. Principles and philosophies of architectural conservation.
Week No.2	International context: Historic Context, Restoration' in the 19th century, Conservation in the 20th Century, Built heritage as a symbol of national identity, Discipline perspectives.
Week No.3	CONSERVATION CHARTERS: Purpose, Listed buildings, Conservation areas, Policies and international codes.
Week No.4	PRACTICE PRINCIPLES: Geometric Survey and analysis. Building survey and diagnosis. Causes of decay.
Week No.5	PRACTICE PRINCIPLES: Material and structure survey: Timber
Week No.6	PRACTICE PRINCIPLES: Material and structure Intervention: Timber
Week No.7	Continuation of the previous lecture and evaluation.
Week No.8	PRACTICE PRINCIPLES: Material and structure survey: Concrete.
Week No.9	PRACTICE PRINCIPLES: Material and structure survey: Material and structure Intervention: Concrete
Week No.10	PRACTICE PRINCIPLES: Material and structure survey: Metal.
Week No.11	PRACTICE PRINCIPLES: Material and structure intervention: Metal.
Week No.12	Continuation of the previous lecture and evaluation.
Week No.13	PRACTICE PRINCIPLES: Material and structure survey: Bricks & Blocks.
Week No.14	PRACTICE PRINCIPLES: Material and structure intervention: Bricks &Blocks
Week No.15	Revision.

5- Teaching and Learning Methods

The course comprises a combination of:
Lectures, discussion sessions, site visits Turkish town (Alexandria), Area of Darb el Asfar - Suhemy and Khorazaty house- (Cairo).

6-Teaching and Learning Methods for Students with Special Needs

- Consulting with lecturer during office hours.
- Consulting with teaching assistant during office hours.
- Private sessions for redelivering the lecture contents.
- For handicapped accessibility, please refer to program specification.

7- Student Assessment

Asses No.	Procedures used		Start Week No.	Subm. Week No.	Weighting of Asses.
	Type	To assess			
1	Research	Intellectual and practical skills.	1	5	10%
2	Written Exam.	Knowledge and intellectual skills.		7	20%
3	Notebook	Knowledge and practical skills.	1	9	10%
4	Written Exam.	Knowledge and intellectual skills.		12	10%
5	Notebook	Knowledge and practical skills.		14	10%
6	Written Exam.	Knowledge and intellectual skills.		16	40%
Total					100%

8- List of References:

a- Course Notes	Notes are handed out on a weekly basis.
b- Required Books (Textbooks)	N/A
c- Recommended Books	<ul style="list-style-type: none"> • ASHURST, Jhon <i>Conservation of Ruins</i>, Elseiver Butterworth, Heinmann, Oxford, 2007. • CASTILLON, Davida, <i>Conservation of natural Resources: A resource management approach</i>, Brown & Benchmark, Madison, 1996. • FEILDEN, M Bernard. <i>Conservation of Historic Building</i>. Arch. Press, London, 2000. • INSALL, Donald, <i>Living buildings: architectural conservation: philosophy, principles and practice</i>, The image publishing group, Victoria, 2008. • ORBASLI, Aylin, <i>Architectural conservation: principles and practice</i>, Willey, Blackwell, 2007. • TYLER, Norman. <i>Historic Preservation: An Introduction to its History Principles and Practice</i>. W.W. Norton, New York, 1999.
d- Periodicals, Web Sites, etc.	Mahdy, A Glossary of Arabic Terms for the Conservation of Cultural Heritage. A downloadable PDF from www.iccrom.org