

Faculty of Engineering & Technology

Elective 5 \ Architecture Heritage

Information :

Course Code : ARC E05

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

| Title | Name | Office hours |
|--------------------|---------------------------------------|--------------|
| Lecturer | BOTHAINA SAMIH ISMAIL ABOELKHIER BADR | 1 |
| Assistant Lecturer | DINA MAHMOUD ABDELRAHMAN NOSEIR | |

Area Of Study :

1. Develop the students' knowledge about the concept and criteria for selecting heritage buildings.
2. Prepare the students to identify the preservation and conservation of architectural heritage.
3. Train students to prepare reports for restoration of heritage buildings.
4. Train students to analyze the charters and norms of preserve architectural heritage.

Description :

Criteria for the selection of heritage buildings - The concept of the common heritage and its common sections - International charters and norms to preserve heritage buildings - Problems facing the preservation of architectural heritage - The Authorities concerned with the preservation of heritage - Actions by the Egyptian state to preserve heritage - The use of nanotechnology in the field of restoration of heritage buildings - Prepare a draft restoration report of heritage building - Treatment of architectural and decorative elements of the heritage buildings - Method of preparing report of (the historical study of the building's heritage, photographic documentation, damage and cracks, architectural drawings, philosophy of preserving, restoration project and a plan of restoration).

Course outcomes :

a.Knowledge and Understanding: :

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|-----|--|
| 1 - | a.1. Explaining the criteria for selecting of heritage buildings. |
| 2 - | a.2. Explaining the international charters and norms of preserving heritage. |
| 3 - | a.3. Explaining problems facing the preservation of architectural heritage. |

b.Intellectual Skills: :

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|-----|---|
| 1 - | b.1. Comparing the different treatments of preserving heritage. |
| 2 - | b.2. Differentiating the Impact between actions by authorities of preserving heritage |

c.Professional and Practical Skills: :

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|-----|--|
| 1 - | c.1. Applying the methods of restoration and renovation. |
| 2 - | c.2. Applying the principles of treatment of architecture and decorative elements of heritage buildings. |

d.General and Transferable Skills :

1 - d.1. Developing the behavior in preservation skills and cooperation work group.

Course Topic And Contents :

| Topic | No. of hours | Lecture | Tutorial / Practical |
|--|--------------|---------|----------------------|
| Criteria for the selection of heritage buildings | 4 | 2 | 2 |
| The concept of the common heritage and its common sections | 4 | 2 | 2 |
| International charters and norms to preserve heritage buildings | 8 | 4 | 4 |
| Problems facing the preservation of architectural heritage | 8 | 4 | 4 |
| The Authorities concerned with the preservation of heritage | 4 | 2 | 2 |
| Actions by the Egyptian state to preserve heritage | 4 | 2 | 2 |
| The use of nanotechnology in the field of restoration of heritage buildings | 8 | 4 | 4 |
| Prepare a draft restoration of heritage building | 4 | 2 | 2 |
| Treatment of architectural and decorative elements of the heritage buildings | 8 | 4 | 4 |
| Method of preparing restoration reports | 8 | 4 | 4 |

Teaching And Learning Methodologies :

Lectures.

Assignment

Discussion

Course Assessment :

| Methods of assessment | Relative weight % | Week No | Assess What |
|-----------------------|-------------------|---------|-------------|
| Assignment | 30.00 | | |
| Final Exam | 40.00 | | |
| In class Quiz | 20.00 | | |
| participation | 10.00 | | |

Course Notes :

No course notes are required

Recommended books :

~ Restoration & Preservation - Goethe Institute . 1989

~ An Exhibition of Modern Techniques of Restoration

~ The Preservation of Culture property