Course Specifications of:

Specifications of Restoration Works for Heritage Buildings

Program(s) on which the course is given: M. sc - Maintenance and Restoration

Compulsory or Elective element of program: Elective

Department offering the program: Architecture

Academic year / Level: Master of Science year 2013 / 2012

Date of specification approval: 23-1-2012

1. Basic Information

Title: Specifications of Restoration Works for Heritage Building Code: Arc 628

Credit Hours: 3 Lecture: 3 Practical:

Semester work: 120 Final Exam: 90 Practical:90 Total: 300

1. Professional Information

1- Overall aims of course:

By the end of the course the student will be able to

* Analyze the philosophy of project management for maintenance and restoration of Heritage Buildings.
* Analyze the types of restoration projects of Heritage Buildings.
* Evaluate the project management systems used in restoration projects.
* How to manage the restoration works for heritage buildings.

 2- Intended learning outcomes of course (ILOs):

1. **Knowledge and understanding**

2.1.3 Recognize the scientific developments in the area of Maintenance and Restoration Works for Heritage Buildings.

2.1.5 List the principles and fundamentals of quality in professional practice related to the area of Maintenance and Restoration Works for Heritage Buildings.

1. **Intellectual skills**

2.2.3 Link different knowledge sources to solve problems.

2.2.5 Assess risks in professional practices in Maintenance and Restoration Works for Heritage Buildings.

2.2.7 Make professional decisions in various professional contexts.

1. **Professional and practical skills**

2.3.3 Assess methods and current tools in the area of Maintenance and Restoration Works for Heritage Buildings.

1. **General and transferable skills**

2.4.4 Use different sources for obtaining information and knowledge.

2.4.6 Work in a group and Lead a team in familiar professional contexts

2.4.8 Conduct self-learning and continuous education practices.

3- Contents

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| Topic No. | Topic | No. of weeks | Total no. of hours |
| 1 | Introduction | 1 | 3 |
| 2 | Required analysis for building materials | 1 | 3 |
| 3 | Required analysis for building materials | 1 | 3 |
| 4 | Required analysis for building materials | 1 | 3 |
| 5 | Standard Specifications of modern additions for restoration works | 1 | 3 |
| 6 | Standard Specifications of modern additions for restoration works | 1 | 3 |
| 7 | Standard Specifications of modern additions for restoration works | 1 | 3 |
| 8 | Midterm exam | 1 | 3 |
| 9 | Specifications of works according to international standards | 1 | 3 |
| 10 | Case studies  | 1 | 3 |
| 11 | Case studies  | 1 | 3 |
| 12 | Project follow up  | 1 | 3 |
| 13 | Project follow up  | 1 | 3 |
| 14 | Project follow up  | 1 | 3 |
| 15 | Submission and discussions  | 1 | 3 |
| 16 | Final exam | 1 | 3 |
|  TOTAL | 16 | 45 |

4- Course Matrix

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| ILO’s code number | Teaching/learning methods and strategies | Assessment methods and strategies |
| 2.1.3 / 2.1.5  |

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| Acquisition of core knowledge and understanding is achieved mainly through lectures, seminars, reading, project work and independent study cases |

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| Assessment will be through individual coursework assignments, oral arranged discussions about particular issues and criticism of design research. In addition to given final examinations.  |

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|  2.2.3 / 2.2.5 / 2.2.7 |

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| Analysis and problem solving skills are developed through tutorials, and projects’ design discussions  |

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| Design and research skills are assessed through student proposals for creative design concepts reflecting particular visionary creative ideas, and provide objec  |

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|  2.3.3 |

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| Projects demonstrations, practical work, practical based projects in selected particular sites, and visits for site analysis.  |

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| Practical skills are assessed through projects prepared concept designs and individual coursework assignments |

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| 2.4.4 / 2.4.6 / 2.4.8  |

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| Presentations of projects as well as seminars  |

 | Project presentation |

5- Assessment schedule

Assessment 1 Assignments on week’s 7-9-11-14

Assessment 2 Midterm exam on week 8

Assessment 3 Oral exam on week 15

Assessment 4 Final exam on week 16

6- Weighting of assessments

30% Home assignments

10% Midterm exam

30% Oral examination

30% Final-term examination

100% Total

7- List of References

* Bernard M Filden, **Conservation of Historic Buildings**, third edition 2004.
* Mendes Zanchetti, Silvio; Jokilehto, Jukka .( 1997), "**Values and urban conservation planning: some reflections on principles and definitions**" . Journal of architectural conservation
* Larkham, Peter J. **(**1990), "**Conservation and the management of historical townscapes**". London: Leicester University Press.
* Appleyard, Donald.**(**1979),**The Conservation of European Cities**. United States : MIT Press.
* Mary Mendell,(1994), **t**[**he Ecological City: Preserving and Restoring Urban Biodiversity‏**](http://www.google.com/books?hl=ar&lr=&id=D7XK90pBeyYC&oi=fnd&pg=PA1&dq=restoring+preserving&ots=vQ0Rjv8o68&sig=AubpmdzLKnS5Mc9j1EArw1hRer4)**.** USA: The University of Massachusetts Press.

8- Facilities required for teaching and learning

Lecture room equipped with overhead projector

Presentation board, computer and data show

Course coordinator: **Prof.Dr. Khaled Abd El Hady.**

Course instructor: **Prof.Dr. Khaled Abd El Hady.**

Date 23 / 1 / 2012