Course Specifications of:

**Maintenance and Restoration Projects Management**

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

Compulsory or Elective element of program: Compulsory

Department offering the program: Architecture

Academic year / Level: year 2012/2013

Date of specification approval:June 2012

1. Basic Information
2. Title: Maintenance and Restoration Projects Management Code: Arch 534
3. Credit Hours: 3 Lecture:3 practical:0
4. Semester work: 120 Final Exam: 90 Practical:90 Total:300
5. Professional Information

1- Overall aims of course:

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

* Promote the use of curricula and analytical techniques of the advanced scientific research for the research of master's degree.
* Analyze the philosophy of project management for maintenance and restoration.
* Produce professional researcher to work in the field of Maintenance and Restoration.
* Evaluate the project management systems used in restoration projects.
* How to manage the long term restoration projects.

2- Intended learning outcomes of course (ILOs):

1. **Knowledge and understanding**

2.1.1 Identify theories, fundamentals and specialized knowledge in the area of Building Maintenance and Restoration as well as in related disciplines.

2.1.3 recognize the scientific developments in the area of Maintenance and Restoration Projects Management

2.1.6 Define the basics and the ethics of scientific research

2.1.8 recognize The need to critically review precedents relevant to the function, organization and technological strategy of proposals; the need to appraise and prepare building briefs of diverse scales and types, to define client and user requirements and their appropriateness to site and context

1. **Intellectual skills**

2.2.4 Conduct a research study and/or write a scientific essay about a research problem

 2.2.5 Assess risks in professional practices in Maintenance and Restoration Projects Management.

1. **Professional and practical skills**

2.3.1 apply basic professional and modern skills in the area of Maintenance and Restoration Projects Management.

2.3.2 Write and evaluate professional reports.

1. **General and transferable skills**

2.4.2 Use information technology in order to serve the development of professional practice

2.4.4 Use different sources for obtaining information and knowledge.

2.4.5 Set basis and standards to assess the performance of others.

3- Contents

|  |  |  |  |
| --- | --- | --- | --- |
| Topic No. | Topic | No. of weeks | Total no. of hours |
| 1 | Introduction to project management for maintenance and restoration | 1 | 3 |
| 2 | Philosophy of project management for maintenance and restoration | 3 | 9 |
| 3 | Types of restoration and maintenance projects | 1 | 3 |
| 4 | Management system used in long term projects | 2 | 6 |
| 5 | Midterm exam | 1 | 3 |
| 6 | How to manage the unknown and the invisible problems | 2 | 6 |
| 7 | Managing the urgent maintenance projects. | 1 | 3 |
| 8 | Managing the salvation projects | 1 | 3 |
| 9 | Systems of site managements of the archaeological sites. | 1 | 3 |
| 10 | Managing the projects of controlling the effects of ground water in the archaeological sites. | 1 | 3 |
| 11 | Oral Exam | 1 |  |
| 12 | Final exam | 1 | 3 |
| TOTAL | | 16 | 45 |

4- Course Matrix

|  |  |  |
| --- | --- | --- |
| ILO’s code number | Teaching/learning methods and strategies | Assessment methods and strategies |
| 2.1.1  2.1.3  2.1.6  2.1.8 | Acquisition of core knowledge and understanding is achieved mainly through lectures, seminars, tutorials, directed reading, project work and independent study. | Assessment will be through individual coursework assignments, quizzes, oral discussions and reports. In addition final written examinations are given. |
| 2.2.4  2.2.5 | Analysis and problem‐solving skills are developed through tutorial/problem sheets and small group exercises | Design and research skills are assessed through. |
| 2.3.1  2.3.2 | Projects demonstrations, practical work, projects and sites visits, and work on the dissertation | Practical skills are assessed through projects write-ups, coursework exercises and reports, project reports and presentations and finally on the methodology demonstrated in the work for the dissertation |
| 2.4.2  2.4.4  2.4.5 | Presentations in seminars (compulsory to be attended by a panel of departmental staff and other students).  Attendance of workshops or internal seminars.  Writing two scientific papers. | Project presentation |

5-Assessment schedule

Assessment 1 Assignmentson week’s 9-14

Assessment 2 Midterm exam on weeks 8

Assessment 3 Oral exam on week 15

Assessment 4 Final exam on week 16

6- Weighting of assessments

30% Home assignments

10% Midterm examination

30% Oral examination

30% Final-term examination

100% Total

7- List of References

6.1 Essential books.

* Bernard M Filden,Conservation of Historic Buildings third edition 2004.
* Jack R. Meredith, Samuel J. Mantel, Jr. Project Management: A Managerial Approach, John Wiley & Sons, 2011.

8- Facilities required for teaching and learning

Lecture room equipped with overhead projector

Presentation board, computer and data show

Course coordinator:**Professor dr./ Khaled Abdelhady**

Course instructor: **Professor dr./Khaled Abdelhady**

Date 29 / 9 / 2013