Course Specifications of:

International and Local Schools of Maintenance and Restoration

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

Compulsory or Elective element of program: Compulsory

Department offering the program: Architecture

Academic year / Level: Doctor of Philosophy year 2013 / 2012

Date of specification approval: 23-1-2012

1. Basic Information

TitleInternational and Local Schools of Maintenance and Restoration Code: Arc 706

1. Credit Hours: 3 Lecture: 3 Practical:
2. Semester work: 120Final Exam:90 Practical: 90Total: 300
3. Professional Information

1- Overall aims of course:

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

* Structure research and set its objectives and hypothesis and methodologies, in addition to designing of questionnaire.
* Analyze and examine constraints as environment, socio-culture, economic criteria …etc that affects the decision-making concerning architecture, urban fields, construction…etc, and has the ability to create alternatives.
* Determine and create new elements, principles, methods and applications in the field of design, construction technology and management, housing, urban planning, maintenance and landscape.

2- Intended learning outcomes of course (ILOs):

1. **Knowledge and understanding**

2.1.6 recognize systematically and with great depth a substantial body of knowledge in restoration and maintenance and the impact on the heritage cities.

2.1.7 Work with theoretical/research knowledge at the forefront of heritage conservation at peer reviewed standards/publication quality and UNESCO charters.

2.1.8 recognize comprehensively the techniques/ methodologies applicable to the maintenance and restoration.

1. **Intellectual skills**

2.2.4 Apply a systematic acquisition and understanding of a substantial body of knowledge in the conservation and maintenance systems.

1. **Professional and practical skills**

2.3.6 Write technical reports and scientific papers.

1. **General and transferable skills**

2.4.2 Manage resource, quality and time, and work under stress.

3- Contents

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| --- | --- | --- | --- |
| Topic No. | Topic | No. of weeks | Total no. of hours |
| 1 | Philosophy of maintenance and restoration within UNESCO stipulations | 1 | 6 |
| 2 | Philosophy of maintenance and restoration within UNESCO stipulations | 1 | 6 |
| 3 | European schools of Architectural Restoration | 1 | 6 |
| 4 | European schools of Architectural Restoration | 1 | 6 |
| 5 | The case of Egypt – Case studies | 1 | 6 |
| 6 | The case of Egypt – Case studies | 1 | 6 |
| 7 | The case of Egypt – Case studies | 1 | 6 |
| 8 | Midterm Exam | 1 | 6 |
| 9 | electing the optimal composition of architectural forms from the perspective of civil defense using AHP | 1 | 6 |
| 10 | FIVE FORMAL PROPERTIES OF A COMPOSITION | 1 | 6 |
| 11 | How the plan conveys the central organizing strategy of a building | 1 | 6 |
| 12 | Typological similarities of architectural forms that cutacross cultural, social, historical, and geographic boundaries | 1 | 6 |
| 13 | Use the patterns of architectural composition to inspire creative design | 1 | 6 |
| 14 | Compositions in Architecture reveals the formal structures in architecture | 1 | 6 |
| 15 | Research follow up | 1 | 6 |
| 16 | Oral exam | 1 |  |
| TOTAL | | 16 | 90 |

4- Course Matrix

|  |  |  |
| --- | --- | --- |
| ILO’s code number | Teaching/learning methods and strategies | Assessment methods and strategies |
| 2.1.6  2.1.7  2.1.8 | Acquisition of core knowledge and understanding is achieved mainly through lectures, seminars, directed readingthat contribute to research and project work and independent research report for a selected case study. | Assessment will be through individual coursework assignments be it preparing planning schemes or essays about selected topics of interest and, oral participation in discussion forum about particular issues to be arranged by staff, and writing reports about case study topics, and providing illustrative and media based presentations. In addition to given final written examinations. Grades distribution system is shown in the curriculum table below. |
| 2.2.4 | * Analysis and problem‐solving skills are developed through tutorials and staff arranged discussion forum, and small group exercises. * Discussions of students prepared term research paper/ and or number of essays prepared in response to research topics selected by teaching staff. * Critical examination of reputable up to date field practiced physical plans at either of community area, development planning, or planning new town, or city level, to conclude lessons learned from practice. * Ensuring efficient response to the inter-disciplinary nature of urban and regional planning, and in depth understanding of the vibrant intricate planning functional inter-disciplinary relationships, and serious considerations for the manifestations of the socio-economic forces and public demands for participation involved in the process of plan preparation. | * Urban and regional planning capabilities and skills are assessed through oral and written examinations, and essays. * Urban and regional planning intellectual abilities and research skills are assessed through oral and written examinations and midterm staff selected topics for research project report about applied case study. |
| 2.3.6 | * Preparing practical based schematic plan formulation (emphasizing the process and creative approach). * Supervised practice for projects demonstrations, based upon planning area visits, and work on how to scientifically, skillfully and methodology write about philosophical approaches and concepts adopted for a particular project. | * Practical skills are assessed through dealing with selected urban/ regional planning problem issues, acknowledging potential planning alternative solutions, to be prepared as part of coursework exercises, and be either reported about or prepare a planning concept and presented for final discussion and assessments through evaluation of the adopted planning process and particular approach selected for the physical development proposed. |
| 2.4.2 | * Participation in annual seminars (compulsory to be attended by a panel of staff and students). * Attendance of workshops or conferences or internal seminars as directed by staff. * Writing one scientific published papers (compulsory assigned before obtaining the degree). | Project presentation |

5-Assessment schedule

Assessment 1 Assignmentson week’s 7-9-11-14

Assessment 3 Oral exam on week 16

6- Weighting of assessments

50% Home assignments

50% Oral examination

100% Total

7- List of References

6.1 Essential books.

1. Venturi, R: Složenostiiprotivurečnosti u arhitekturi, Građevinskaknjiga, Beograd, 2001, pp180

2. Arnhajm,R.: Umetnostivizuelnoopažanje, Univerzitetumetnosti u Beogradu, 1987, pp. 229

3. Hartman, N.: Aesthetics, Architectural Press, Oxford, 2001. pp.147

4. Hildebrand, A: Problem forme u likovnojumetnosti, Univerzitetumetnosti, Beograd1987, pp.15

5. Arbhajm, R.: For the Salvation of Art, pp.47

6. Ajk, A.: Image, 128 (taken from R.Radovic, Savremenaarhitektura,pp 154)

7. Arnhajm, R.: Dinamikaarhitektonskeforme, Univerzitetumetnosti u Beogradu, 1990, pp. 17

8. Velflin, H :Renesansaibarok, Izd.kuća. S. Stojanovića, Novi Sad, 2000, pp.33

9. Holl, S &Pallasmaa, J& Perez-gomez, A: Question of Perteption, WSB, San Francisko, 2006.pp.25, 54.

8- Facilities required for teaching and learning

Lecture room equipped with overhead projector

Presentation board, computer and data show

Course coordinator:**dr. /Ahmed Youssef**

Course instructor: **dr. /Ahmed Youssef**

Date 29 / 9 / 2013