Course Specifications of:

Rehabilitation and Development of Building Uses

Program(s) on which the course is given: Postgraduate Diploma - Architectural Design.

Compulsory or Elective element of program: Elective

Department offering the program: Architecture

Academic year / Level: year/ 2012 -2013

Date of specification approval: June 2012

1. Basic Information
2. Title: Rehabilitation and Development of Building Uses Code: Arc 506
3. Credit Hours: 3 Lecture: 3 practical
4. Semester work: 120 Final Exam:90 Practical: 90 Total: 300
5. Professional Information

1- Overall aims of course:

* Provide knowledge about latest technological applications in architectural rehabilitation.
* Develop architects ability for professional preparation of technical execution plans and work details, and follow up of project execution.

2- Intended learning outcomes of course (ILOs):

1. **Knowledge and understanding**

2.1.1 Describe basics and fundamentals of quality in architectural design field and professional practice.

2.1.4 Identify a comprehensive overview of the practical aspects of architectural design, emphasizing the process of identifying forces influencing design and application of developed designs.

**b- Intellectual skills**

2.2.3 Critically and analytically read research papers and topics related to architectural design field.

2.2.6 Contribute to the built environment with responses sensitive to their environmental, technical, social and cultural contexts

1. **Professional and practical skills**

2.3.2 Prepare professional reports.

1. **General and transferable skills**

2.4.2 Utilize technology in the fields related to architectural design.

2.4.5 Conduct self-learning and continuous education practices.

3- Contents

|  |  |  |  |
| --- | --- | --- | --- |
| Topic No. | Topic | No. of weeks | Total no. of hours |
| 1 | Basic principles for planning for service networks of buildings | 1 | 3 |
| 2 | designfor service networks of buildings | 1 | 3 |
| 3 | designfor service networks of buildings | 1 | 3 |
| 4 | maintenance, follow up level commissioning of buildings | 1 | 3 |
| 5 | use of artificial intelligence in control/ operation | 1 | 3 |
| 6 | use of artificial intelligence in control/ operation | 1 | 3 |
| 7 | for efficient use of buildings and Quizzes | 1 | 3 |
| 8 | Midterm Exam | 1 | 3 |
| 9 | buildings management and I.T. usage | 1 | 3 |
| 10 | efficiency of space use within and out with buildings | 1 | 3 |
| 11 | efficiency of space use within and out with buildings | 1 | 3 |
| 12 | Project follow up | 1 | 3 |
| 13 | Project follow up | 1 | 3 |
| 14 | Submission and discussions | 1 | 3 |
| 15 | Oral exam | 1 | 3 |
| 16 | Final exam | 1 | 3 |
| TOTAL | | 16 | 48 |

4- Course Matrix

|  |  |  |
| --- | --- | --- |
| ILO’s code number | Teaching/learning methods and strategies | Assessment methods and strategies |
| 2.1.1  2.1.4 | * Acquisition of core knowledge and understanding is achieved mainly through lectures, seminars, tutorials, directed reading, project work for design concepts, argued and valued against objectives, and presented in independent study repoort. | Assessment will be through individual coursework assignments, oral arranged discussions and raise arguments regarding particular topics architecture design and application issues and write individual assays, as well as prepare and write a term scientific report about particular topic. In addition to written final examinations. Grades distribution system is shown in the curriculum table below. |
| 2.2.3  2.2.6 | Analysis and problem‐solving skills are developed through tutorial/problem design and small group discussion reports regarding staff selected topics. | Analysis and design skills and level of creativity are assessed through oral, preparation of alternative design concepts and written research essays. |
| 2.3.2 | Projects demonstrations, practical work, projects and sites analysis based on field visits. | Practical skills are assessed through projects write-ups, coursework exercises and project reports and presentations and final forums discussions and arguments raised about creative ideas demonstrated and adopted methodology, and process carried out to achieve the design objectives. |
| 2.4.2  2.4.5 | Presentations of one major term paper researching particular topic of architectural design or applied field case professionally practiced, in annual seminars (compulsory to be attended by a panel of departmental staff and other students). | research presentation |

5-Assessment schedule

Assessment 1 Assignmentson weeks 7-9-11-14

Assessment 2 Quizzes on weeks 7

Assessment 3 Oral exam on week 15

Assessment 4 Final exam on week 16

6- Weighting of assessments

30% Home assignments

10% Quizzes

30% Oral examination

30% Final-term examination

100% Total

7- List of References

6.1 Essential books.

* Jencks, C. Modern movements in architecture. Harmondsworth. 1973.
* E. Georgi, Michel Fouad… The informal growth of residential assemblies in Egypt. Magazine of the association of the Egyptian engineers 1987
* Dorothy Henehan, Roger Dodge Woodson. Building Change-of-use.McGraw Hill Professional, 2004.

8- Facilities required for teaching and learning

Lecture room equipped with overhead projector

Presentation board, computer and data show

Course coordinator: **Associate professor dr./** Mohamed Khairy Amin .

Course instructor: **Associate professor dr./** Mohamed Khairy Amin .

Date 6 / 11 / 2013