Course Specifications of:

**Principles of Architectural Design**

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

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: Principles of Architectural Design Code: Arc 502
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:

* Upgrade architects professional performance in architectural design field.
* Provide training in the direct application of up to date knowledge and advanced methods to attain original and distinguishable solutions for design problems.
* Promote newly articulated visions about architectural design.

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.

2.1.2 List ethical and legal principles of architectural design phases.

1. **Intellectual skills**

2.2.5 Make professional decisions in the light of available information.

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

1. **Professional and practical skills**

2.3.1 Acquire and apply the range of skills necessary to become a professional architect.

2.3.2 Prepare professional reports

1. **General and transferable skills**

2.4.2 Utilize technology in the fields related to architectural design.

2.4.4 Lead a team in familiar professional contexts.

3- Contents

|  |  |  |  |
| --- | --- | --- | --- |
| Topic No. | Topic | No. of weeks | Total no. of hours |
| 1 | Design process | 1 | 3 |
| 2 | determinants and forces affecting the process |  | 3 |
| 3 | determinants and forces affecting the process | 1 | 3 |
| 4 | space functional programming | 1 | 3 |
| 5 | space functional programming | 1 | 3 |
| 6 | matrix of functional interrelations | 1 | 3 |
| 7 | environmental factors and Quizzes | 1 | 3 |
| 8 | Midterm Exam | 1 | 3 |
| 9 | symbolic and philosophical architectural context | 1 | 3 |
| 10 | symbolic and philosophical architectural context | 1 | 3 |
| 11 | contemporary role of architecture and human demand | 1 | 3 |
| 12 | contemporary role of architecture and human demand | 1 | 3 |
| 13 | Harmony and contrast between architecture and urban context. | 1 | 3 |
| 14 | Harmony and contrast between architecture and urban context. | 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  2.1.2 | * 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 report. | 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. |
| 2.2.5  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. |
| 2.3.1  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  2.4.4 | 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 Assignments on weeks 9-11-14

Assessment 2 Quizzes on weeks 7

Assessment 3 midterm exam on weeks 8

Assessment 4 Oral exam on week 15

Assessment 5 Final exam on week 16

6- Weighting of assessments

30% Home assignments

10% Quizzes & midterm exam

30% Oral examination

30% Final-term examination

100% Total

7- List of References

6.1 Essential books.

* K. Michael Hays. Architecture Theory since 1968. Columbia Books of Architecture. 1993.

 Nielson, K. J., & Taylor, D. A. (2002). Interiors: An Introduction. New York: [McGraw-Hill Companies, Inc.](http://en.wikipedia.org/wiki/McGraw-Hill)

8- Facilities required for teaching and learning

Lecture room equipped with overhead projector

Presentation board, computer and data show

Course coordinator: **professor dr. /**  Ahmed Fared Hamza .

Course instructor: **professor dr. /** Ahmed Fared Hamza .

Date 25 /11 / 2013