## 1. Basic Information

| | |
|---|---|
| **Program Tile** | Architectural Engineering |
| **Department offering the Program** | Architectural Engineering |
| **Department Responsible for the Course** | Architectural Engineering |
| **Course Title** | Architectural Design 1 |
| **Course Code** | ARE7112 |
| **Year/ Level** | First Year – First Semester |
| **Specialization** | Minor |
| **Authorization date of course specification** | 2005 |

| **Teaching Hours** | Lectures | Tutorial | Practical |
|---|---|---|---|
| | 1 | 5 | 0 |

## 2. Course Attributes:

| No. | Attribute |
|---|---|
| 3 | Design and conduct experiments as well as analyze and interpret data |
| 6 | Work effectively within multi-disciplinary teams. |
| 13 | Demonstrate investigative skills, attention to details, and visualize/conceptualize skills. |

## 3. Intended Learning Outcomes (ILOs):

### a. Knowledge and Understanding:

| No. | Knowledge and Understanding |
|---|---|
| $A_{13}$ | Principles of architectural design, and the preparation and presentations of design projects in a variety of contexts, scales, types and degree of complexity. |

### b. Intellectual Skills

| No. | Intellectual Skills |
|---|---|
| $B_3$ | Think in a creative and innovative way in problem solving and design. |
| $B_{13}$ | Integrate different forms of knowledge, ideas from other disciplines, and manage information retrieval to create new solutions. |
| $B_{14}$ | Think three-dimensionally and engage images of places & times with innovation and creativity in the exploration of design. |

### c. Professional Skills

| No. | Professional Skills |
|---|---|
| $C_{18}$ | Display imagination and creativity. |

| C$_{19}$ | Respect all alternative solutions; changes in original plan of the project, differences in style, culture, experience and treat others with respect. |
|---|---|

## D. General Skills

| No. | General Skills |
|---|---|
| D$_1$ | Collaborate effectively within multidisciplinary team. |
| D$_2$ | Work in stressful environment and within constraints. |
| D$_3$ | Communicate effectively. |

## 4. Course Contents:

| No. | Topics |
|---|---|
| 1 | Course orientation. |
| 2 | Drawing tools &sketching. |
| 3 | Gothic Letters' exercise. |
| 4 | Classics 'exercise & Research. |
| 5 | Arch. drawings: Plans Ex. |
| 6 | Furniture & presentation. |
| 7 | Sections & elevations. |
| 8 | Project 1: Introduction. |
| 9 | Project 1: Reviewing. |
| 10 | Project1:Final Review Ex. |
| 11 | Project 1: Delivery. |
| 12 | One-day Exam. |

## 5. Teaching and Learning Methods:

### 5.1 Normal Students:

| No. | Teaching Method | Choice |
|---|---|---|
| 1 | Lectures | √ |
| 2 | Discussion Sessions | √ |
| 3 | Information Collection from Different Sources | × |
| 4 | Practical | √ |
| 5 | Research Assignment | √ |
| 6 | Field Visits | √ |
| 7 | Case Studies | √ |
| 8 | Smart Sessions | × |

### 5.2 Disable Students:

| No. | Teaching Method | Reason |
|---|---|---|
| 1 | Presentation of the course in digital material. | Better access any time. |
| 2 | Web communication with students | Better communication with certain cases. |
| 3 | Asking small groups to do assignments; each composed of low, medium, and high performance students. | Knowledge and skills transfer among different levels of students. |
| 4 | Asking disabled students to do PowerPoint/Poster presentations. | Encouraging disabled students' engagement and interaction. |

### 5.3 Excellent Students:

| No. | Teaching Method | Reason |
|---|---|---|
| 1 | Developing course materials gradually to allow excellent students to receive teaching that meets their needs | Excellent students rely on excellent teaching |
| 2 | Encouraging students to participate in competitions with rewarded bonus marks. | Increasing excellent students' competitiveness |

## 6. Student Assessment:

### 6.1 Student Assessment Methods:

| No. | Assessment Method | Choice | ILOs |
|---|---|---|---|
| 1 | Mid Term Examination | √ | $B_3$, $B_{13}$, $B_{14}$, $D_1$ |
| 2 | Oral Examination | √ | $D_2$, $D_3$ |
| 3 | Practical Examination | × | - |
| 4 | Semester work | √ | $A_{13}$, $C_{18}$, $C_{19}$, $D_2$ |
| 5 | Other types of assessment | × | - |
| 6 | Final Term Examination | √ | $A_{13}$, $B_{14}$, $D_3$ |

### 6.2 Assessment Schedule:

| No. | Assessment Method | Weeks |
|---|---|---|
| 1 | Mid Term Examination | 8 |
| 2 | Oral Examination | 12 |
| 3 | Practical Examination | × |
| 4 | Semester work | Weekly |
| 5 | Other types of assessment | × |
| 6 | Final Term Examination | 14 |

### 6.3 Weighting of Assessments:

| No. | Assessment Method | Weights |
|---|---|---|
| 1 | Mid Term Examination | 10% |
| 2 | Oral Examination | 10% |
| 3 | Practical Examination | - |
| 4 | Semester work | 40% |
| 5 | Other types of assessment | - |
| 6 | Final Term Examination | 40% |
| Total | | 100% |

## 7. List of References

| No. | Reference List |
|---|---|
| 1 | Ernst Neufert, Architects' Data. |
| 2 | Architectural GRAPHIC Standards. NY: John Wiley & Sons, Inc., 2004. |
| 3 | Architectural principles. |
| 4 | http://www.designbasics.com/ |

## 8. Facilities Required for Teaching and Learning:

| No. | Facility | Choice | No. | Facility | Choice |
|---|---|---|---|---|---|
| 1 | Lecture Classroom | √ | 7 | Wireless Board | × |
| 2 | Lab Facilities | × | 8 | Presenter | √ |
| 3 | White Board | √ | 9 | Sound System | √ |
| 4 | Data Show System | √ | 10 | Wire-Internet | √ |
| 5 | Visualizer | × | 11 | Wireless Internet | √ |
| 6 | Smart Board | √ | 12 | … | |

## 9. Matrix of Knowledge and Skills of the Course:

| No. | Topic | Attributes | Knowledge & Understanding | Intellectual Skills | Professional Skills | General Skills |
|---|---|---|---|---|---|---|
| 1 | Course orientation. | 3 | $A_{13}$ | $B_3$ | $C_{18}$, $C_{19}$ | $D_1$, $D_2$, $D_3$ |
| 2 | Drawing tools &sketching. | 3 | $A_{13}$ | $B_3$ | $C_{18}$, $C_{19}$ | $D_1$, $D_2$, $D_3$ |
| 3 | Gothic Letters' exercise. | 3 | $A_{13}$ | $B_3$ | $C_{18}$ | $D_1$, $D_2$, $D_3$ |
| 4 | Classics 'exercise & Research. | 6 | $A_{13}$ | $B_3$ | $C_{18}$, $C_{19}$ | $D_2$, $D_3$ |
| 5 | Arch. drawings: Plans Ex. | 3, 6 | $A_{13}$ | $B_3$ | $C_{18}$, $C_{19}$ | $D_1$, $D_2$, $D_3$ |
| 6 | Furniture & presentation. | 6 | $A_{13}$ | $B_3$ | $C_{19}$ | $D_1$, $D_2$ |
| 7 | Sections & elevations. | 6 | $A_{13}$ | $B_3$ | $C_{19}$ | $D_1$, $D_2$ |
| 8 | Project 1: Introduction. | 6 | $A_{13}$ | $B_{13}$, $B_{14}$ | $C_{19}$ | $D_1$, $D_2$ |

| 9 | Project 1: Reviewing. | 13 | $A_{13}$ | $B_{13, } B_{14}$ | $C_{19}$ | $D_1, D_2$ |
|----|------------------------|-----|----------|-------------------|----------|-------------|
| 10 | Project1:Final Review Ex. | 13 | $A_{13}$ | $B_{13, } B_{14}$ | $C_{19}$ | $D_1, D_2$ |
| 11 | Project 1: Delivery. | 13 | $A_{13}$ | $B_{13, } B_{14}$ | $C_{19}$ | $D_1, D_2, D_3$ |
| 12 | One-day Exam. | 13 | $A_{13}$ | $B_{13, } B_{14}$ | $C_{19}$ | $D_1, D_2, D_3$ |

**Course Coordinator:**    **Dr. Mona Awad Abul-Eeneen El-Wazir**

**Head of Department:**    **Professor Dr. Mohammad Mohammad Taha Al-Azab**

**Date of Approval:**