1. Basic Information

Program Tile	Architectural Engineering
Department offering the Program	Architectural Engineering
Department Responsible for the Course	Architectural Engineering
Course Title	Architectural Design 5*
Course Code	ARE7311
Year/ Level	Third Year – First Term
Specialization	Major
Authorization date of course specification	2005

Teaching Hours	Lectures	Tutorial	Practical
	2	5	0

2. Course Attributes:

No.	Attribute
05	Use the techniques, skills, and appropriate engineering tools, necessary for engineering practice and project management.
12	Design robust architectural projects with creativity and technical mastery.
13	Demonstrate investigative skills, attention to details, and visualize/conceptualize skills.
14	Adopt a holistic problem solving approach for complex, ambiguous, and open-ended challenges and scenarios.
17	Recognize the new role of architectural engineer as the leader of design projects— who has the ability to understand, assemble, and coordinate all of the disciplines— to create a sustainable environment.

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_{03}	Think in a creative and innovative way in problem solving and design.
B_{10}	Incorporate economic, societal, environmental dimensions and risk management in design.
B_{13}	Integrate different forms of knowledge, ideas from other disciplines, and manage information retrieval to create new solutions.
B_{16}	Reconcile conflicting objectives and manage the broad constituency of

	interests to reach optimum solutions.
B_{18}	Integrate community design parameters into design projects.
B_{19}	Appraise the spatial, aesthetic, technical and social qualities of a design within the scope and scale of a wider environment.

c. Professional Skills

No.	Professional Skills
C_{02}	Professionally merge the engineering knowledge, understanding, and feedback to improve design, products and/or services.
C_{13}	Produce and present architectural, urban design, and planning projects using an appropriate range of media and design-based software.
C_{17}	Demonstrate professional competence in developing innovative and appropriate solutions of architectural and urban problems.
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.
C_{22}	Contribute positively to the aesthetic, architecture and urban identity, and cultural life of the community.

d. General Skills

No.	General Skills
D_{01}	Collaborate effectively within multidisciplinary team.
D_{02}	Work in stressful environment and within constraints.
D_{03}	Communicate effectively.
D_{04}	Demonstrate efficient IT capabilities.
D_{06}	Manage tasks and resources efficiently.

4. Course Contents:

No.	Topics
1	مشروع تصميم مول تجاري وجراج
2	بحث عن المشروع
3	مساقط افقية ودراسات
4	افكار واجهات وقطاعات
5	افكار كتلية
6	تبييض وتحكيم المشروع

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	√	A_{13}, B_{03}, B_{10}, B_{13}, C_{02}, C_{13}, ,D_{01}
2	Oral Examination	√	D_{01}, D_{02}, D_{03}, D_{04}, D_{06}
3	Practical Examination	×	-

4	Semester work	√	A_{13}, B_{16}, B_{18}, C_{17}, C_{18}, D_{03}
5	Other types of assessment	×	-
6	Final Term Examination	√	A_{13}, B_{19}, C_{19}, C_{17}, D_{04} ,D_{06}

6.2 Assessment Schedule:

No.	Assessment Method	Weeks
1	Mid Term Examination	08^{th}
2	Oral Examination	14^{th}
3	Practical Examination	×
4	Semester work	2^{nd} -7^{th} ; 09^{th} – 13^{th}
5	Other types of assessment	×
6	Final Term Examination	15^{th}

6.3 Weighting of Assessments:

No.	Assessment Method	Weights
1	Mid Term Examination	12
2	Oral Examination	6
3	Practical Examination	-
4	Semester work	25
5	Other types of assessment	-
6	Final Term Examination	57%
Total		100%

7. List of References

No.	Reference List
1	Recommended books and internet sites.
2	Architectural Record
3	www.archspace.com

8. Facilities Required for Teaching and Learning:

No.	Facility	Choice
1	Lecture Classroom	√

No.	Facility	Choice
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	بحث عن المشروع الأول	05	A_{13}	B_{03}	C_{02}	D_{01}
2	مساقط افقية ودراسات	12	A_{13}	B_{10}	C_{13}, C_{17}, C_{18}	D_{02}, D_{03}
3	افكار واجهات وقطاعات	12, 13	A_{13}	B_{13}	C_{19}	D_{04}, D_{06}
4	افكار كتلية	14	-	B_{13}, B_{16}, B_{18}	C_{19}, C_{22}	D_{04}, D_{06}
5	تبييض وتحكيم المشروع	17	-	B_{19}	-	D_{03}, D_{04}, D_{06}

Course Coordinator: **Professor Dr. Osama Farag**

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

Date of Approval: