Course Specifications:
ARE7323 - Housing and Urban Design 1

1. Basic Information

Program Tile	Architectural Engineering
Department offering the Program	Architectural Engineering
Department Responsible for the Course	Architectural Engineering
Course Title	Housing and Urban Design 1
Course Code	ARE7323
Year/ Level	Third Year – Second Semester
Specialization	Major
Authorization date of course specification	2005

Teaching Hours	Lectures	Tutorial	Practical
	2	2	0

2. Course Attributes:

No.	Attribute
05	Use the techniques, skills, and appropriate engineering tools, necessary for engineering practice and project management.
14	Adopt a holistic problem solving approach for complex, ambiguous, and open-ended challenges and scenarios
15	Demonstrate knowledge of cultural diversity, differences and the impact of a building on community character and identity.
16	Address urban issues, planning, and community needs through design work.

3. Intended Learning Outcomes (ILOs):

a. Knowledge and Understanding:

No.	Knowledge and Understanding
A_{04}	Principles of design including elements design, process and/or a system related to specific disciplines.
A_{17}	The processes of spatial change in the built and natural environments; patterns and problems of cities; and positive & negative impacts of urbanization.
A_{18}	The significance of urban spaces and the interaction between human behavior, built environment and natural environment.
A_{23}	Principles of sustainable design, climatic considerations, and energy consumption and efficiency in buildings and their impacts on the environment.

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_{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_{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_{05}	Lead and motivate individuals.
D_{06}	Manage tasks and resources efficiently.
D_{09}	Refer to relevant literature effectively.

4. Course Contents:

No.	Topics
1	مقدمة عامة
2	الإسكان: منظومة الإسكان-تخطيط المواقع السكنية
3	المجاورة السكنية
4	تقسيم الأراضي
5	تجميع المباني السكنية
6	الخدمات: الاعتبارات التخطيطية والتصميمية-تصنيف الخدمات
7	الخدمات التعليمية - الخدمات الصحية - الخدمات التجارية - الخدمات الإدارية
8	الخدمات الثقافية - الخدمات الدينية - المناطق الخضراء والترفيهية
9	شبكة الطرق: التدرج الهرمي للطرق
10	الاعتبارات التصميمية للطرق
11	دراسة النقل والمرور
12	تقاطعات الطرق
13	مناطق انتظار السيارات
14	مناقشة عامة وحوار مفتوح

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	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_{04}, A_{17}, B_{03}, B_{10}, B_{13}, D_{01}
2	Oral Examination	√	D_{02}, D_{03}
3	Practical Examination	×	-
4	Semester work	√	A_{18}, B_{19}, C_{13}, C_{17}, C_{18}, D_{04}
5	Other types of assessment	×	-
6	Final Term Examination	√	A_{17}, A_{23}, B_{03}, B_{18}, B_{19}, C_{19}, C_{22}, D_{05}, D_{06}, D_{09}

6.2 Assessment Schedule:

No.	Assessment Method	Weeks
1	Mid Term Examination	8th
2	Oral Examination	×
3	Practical Examination	×
4	Semester work	2nd, 4th, 6th, 10th , 12th
5	Other types of assessment	×
6	Final Term Examination	15th

6.3 Weighting of Assessments:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Oral Examination	-
3	Practical Examination	-
4	Semester work	20%
5	Other types of assessment	-
6	Final Term Examination	70%
Total		100%

7. List of References

No.	Reference List
1	تخطيط المدن أسلوب ومراحل – أ.د/ عاطف حمزة
2	التخطيط العمراني / الجزء الثاني (الإسكان-الخدمات-الحركة) – أ.د/ شفق الوكيل
3	تخطيط المجاورة السكنية – أ.د/ أحمد خالد علام

8. Facilities Required for Teaching and Learning:

No.	Facility	Choice
1	Lecture Classroom	√
2	Lab Facilities	×
3	White Board	√
4	Data Show System	√
5	Visualizer	×
6	Smart Board	√

No.	Facility	Choice
7	Wireless Board	×
8	Presenter	√
9	Sound System	√
10	Wire-Internet	×
11	Wireless Internet	√
12	…	

9. Matrix of Knowledge and Skills of the Course:

No.	Topic	Attributes	Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
1	مقدمة		A_{04}, A_{17}	B_{03}	C_{13}, C_{17}	D_{01}
2	الإسكان - منظومة الإسكان-تخطيط المواقع السكنية	14, 16	A_{04}, A_{17}	B_{10}	C_{13}, C_{17}	D_{02}, D_{03}

3	المجاورة السكنية	5, 14, 16	A_{04}, A_{17}	B_{13}	C_{17}	D_{02}, D_{03}
4	تقسيم الأراضي	5, 14, 16	A_{04}, A_{17}	B_{03}, B_{10}	C_{17}	D_{04}
5	تجميع المباني السكنية	5, 14, 16	A_{17}	B_{18}	C_{17}	D_{04}
6	الخدمات - الاعتبارات التخطيطية والتصميمية-تصنيف الخدمات	15, 16	A_{17}	B_{18}	C_{17}	D_{05}
7	الخدمات التعليمية - الخدمات الصحية - الخدمات التجارية - الخدمات الإدارية	5, 14, 16	A_{17}	B_{18}	C_{17}	D_{05}
8	الخدمات الثقافية - الخدمات الدينية - المناطق الخضراء والترفيهية	5, 14, 16	A_{17}	B_{18}	C_{18}	D_{05}
9	شبكة الطرق - التدرج الهرمي للطرق	5, 14, 16	A_{17}	B_{18}	C_{18}	D_{05}
10	الاعتبارات التصميمية للطرق	15, 16	A_{17}	B_{18}	C_{18}	D_{05}
11	دراسة النقل والمرور	5, 14, 16	A_{17}	B_{18}	C_{18}	D_{06}
12	تقاطعات الطرق	5, 14, 16	A_{17}, A_{18}	B_{18}, B_{19}	C_{19}, C_{22}	D_{06}
13	مناطق انتظار السيارات	5, 14, 16	A_{17}, A_{18}	B_{18}, B_{19}	C_{19}, C_{22}	D_{06}
14	مناقشة عامة وحوار مفتوح		A_{23}	B_{18}, B_{19}	C_{19}, C_{22}	D_{05}, D_{06}, D_{09}

Course Coordinator: **Dr. Ibrahim Rezk Hegazy**

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

Date of Approval: