

Faculty of Engineering & Technology

Urban Design & Housing 2

Information :

Course Code : ARC 552

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	DINA MAAROUF AHMED MOHAMED DIEFALLAH	7
Teaching Assistant	Salma Mohamed Eltohamy Elgendy	
Teaching Assistant	Ahmed Ayman Ali Mohamed Ramadan	

Area Of Study :

Upon successful completion of the course:

- Develop students' demonstration of the application of methods and techniques of urban design theories.
- Prepare student to differentiate between the urban design and its area of work through the practical field of urban planning, urban design and architecture,
- Increase the students' ability to demonstrate the socio- cultural- economic aspects in housing projects through the new development level.
- Assist students in developing skills and techniques in the fields of urban design and housing.
- Train students to distinguish the skills of the research tools, and the tools of research methodology; data gathering, analysis, and documentation.
- Prepare students to manage the determination of the problems, and create tools to solve the problems in the field of urban design, urban conservation and preservation.
- Increase students' ability to assess the urban documentation by using the different methods; reports will supplementary material, which may include.
- Train students to communicate effectively with others.
- Develop students' ability to make a decision in accordance with the available resources.

Course outcomes :

a. Knowledge and Understanding: :

1 -	a.1. Identify the urban design and housing theories and movements
2 -	a.2. Recognize urban design element for the new development projects.
3 -	a.3. Point different elements of the built environment and housing projects
4 -	a.4. Outline the socio-cultural, socio-political, socio-economic issues to urbanism and new urbanism movements.

b. Intellectual Skills: :

1 -	b.1. Apply the design process in the project.
2 -	b.2. Analyze data on different levels
3 -	b.3. Assess existing urban design and housing projects, & elements of the built environment
4 -	b.4. Suggest and evaluate alternative urban design settings

c. Professional and Practical Skills: :

1 -	c.1. Construct project out line.
2 -	c.2. Specify problems with great complexity
3 -	c.2. Specify problems with great complexity
4 -	c.3. Design alternative solutions to large scale urban design and housing projects that integrate different social and cultural variables and encompass all scales of environmental design.
5 -	c.4. Judge the applications of contemporary tools and approaches to urban design problems.

d. General and Transferable Skills: :

1 -	d.1. Present projects and data using different techniques (computer, manual & etc.).
2 -	d.2. Communicate effectively with others.
3 -	d.3. Presenting the work using common techniques and tools

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction	2	2	4
The relationships between man and environment,	2	2	4
Method and Techniques, Urban Design physical components	2	2	4
Urban Form Generation; Spatial Form	2	2	4
Urban Control	2	2	4
1st submissions and follow up of all staff comments.	2	2	4
History of urban design as a field of practice.	2	2	4
Theory of urban design	2	2	4
Visual aspects in large urban design projects. elevations (follow up)	2	2	4
Elements of Open Spaces/Urban Spaces	2	2	4
Housing clusters/ Project follow up	2	2	4
2nd submissions and follow up of all staff comments	2	2	4
Housing: neighborhood unit	2	2	4
Landscape Architecture for large urban design and housing projects.	2	2	4
3rd submissions	2	2	4

Teaching And Learning Methodologies :

Interactive Lectures
Research
Classwork

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments / Studio work	30.00		
Final exam	40.00		

in-class quizzes/ Midterms	20.00		
Participation	10.00		

Course Notes :

No course notes are required.

Recommended books :

- [1] Bentley, Alcock, Murrain, McGlynn, and Smith, Responsive Environments, A Manual for designer, Butterworth Architecture, (1985).
- [2] Gosling, David, Gordon Cullen: Visions of Urban Design, Academy Editions, (1996)
- [3] Llewelyn-Davies, Urban Design Compendium, English Partnerships, The Housing Corporation, First Published (2000).
- [4] Moughtin. Cliff. ET, Urban Design; Method and Techniques, Architectural Press. (1999).
- [5] Moughtin. Cliff. ET, Urban Design; Street and Square, Third Edition, , Architectural Press. (2003).
- [6] Moughtin. Cliff. ET, Peter Shirley, Urban Design; Green Dimensions, Second Edition, Architectural Press. (2005).
- [7] Fleming, John, ET. Al., the Penguin Dictionary of Architecture and Landscape Architecture, the Penguin Group, Fifth Edition, (1998)
- [8] Alexander, Christopher, A. Neis, H. Anninou, A., and King, I., A New Theory of Urban Design, Oxford: Oxford University Press, (1987)
- [8] Brolin, Brent. Architecture in Context. Fitting New Buildings with Old, Van Nostrand Reinhold Company. N.Y., USA. (1980).
- [9] Gosling, David. Et. Al., Concepts of Urban Design, Academy Editions. Martin & Press. London. Britain. (1984)
- [10] Krier, Robert, Urban Space, Academy edition, Rizzoli, New York, (1979).
- [11] Jon Lang (2005), URBAN DESIGN: A TYPOLOGY OF PROCEDURES AND PRODUCTS, Illustrated with over 50 Case Studies, the Master in Urban Development