

Faculty of Engineering & Technology

Urban Design & Housing 1

Information :

Course Code : ARC 452

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	DINA MAAROUF AHMED MOHAMED DIEFALLAH	4
Assistant Lecturer	SOFIA AYAD ESKANDER DAWOUD	
Assistant Lecturer	ETHAR ESSAM MAHMOUD ALY ELSHINAWY	3
Assistant Lecturer	Aya Osama Ahmed Kamal Aly	
Assistant Lecturer	DINA MAHMOUD ABDELRAHMAN NOSEIR	2

Area Of Study :

Upon successful completion of the course, the student should be able to:

- Demonstrate the application of methods and techniques of urban design theories.
- Differentiate between the urban design and its area of work through the practical field of urban planning, urban design and architecture.
- Demonstrate the socio- cultural- economic aspects in housing projects through the new development level.
- Assist in developing skills and techniques in the fields of urban design and housing.
- Distinguish the skills of the research tools, and the tools of research methodology; data gathering, analysis, and documentation.
- Manage the determination of the problems, and create tools to solve the problems in the field of urban design, urban conservation and preservation.
- Assess the urban documentation by using the different methods; reports will supplementary material, which may include.
- Communicate effectively with others.
- Make a decision in accordance with the available resources.

Description :

This course introduces the students to the approaches, techniques and tools of urban design necessary to structure the spatial and dimensional relationships of the built environment. The morphology of the city and the relationship of built form to circulation networks and open space configurations will be the primary subject of the class. This course concentrates on the design of urban spaces, housing clusters and residential neighborhoods, informed by (but independent of) the demands of quantitative analysis, decision making frameworks, economic forecasting or the specifics of plan implementation.

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
c.Professional and Practical Skills: :	
1 -	c.1. Construct project out line.
2 -	c.2. Specify problems with great complexity.
3 -	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.
4 -	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	4	2	2
The relationships between man and environment,(Touristic Compound on north cost).	4	2	2
Method and Techniques, Urban Design physical components	4	2	2
Urban Form Generation; Spatial Form	4	2	2
Urban Control	4	2	2
1st submissions and follow up of all staff comments.	4	2	2
History of urban design as a field of practice.	4	2	2
Theory of urban design	4	2	2
Visual aspects in large urban design projects.	4	2	2
Elements of Open Spaces/Urban Spaces	4	2	2
Housing clusters/ Project follow up	4	2	2
2nd submissions and follow up of all staff comments	4	2	2
Housing: neighborhood unit	4	2	2
Landscape Architecture for large urban design and housing projects.	4	2	2
3rd submissions	4	2	2

Teaching And Learning Methodologies :

Lectures.
Design studios.
Research

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments/Studio work	30.00		
Final Examination	40.00		
In Class Quizzes	20.00		
Participation	10.00		

Course Notes :

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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. Martinç 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 Jacobs, Jane. The Death and Life of Great American Cities New York: Modern Library, 1993. ISBN 0-679-60047-7
- Kostof, Spiro. The City Shaped: Urban Patterns and MeaningsThrough History
New York: Bulfinch Press, Hachette Book Group, 1993. ISBN 978-0-82120-2016-0
- Kriken, John L. et. al. City Building: Nine Planning Principles for the Twenty-First Century
New York: Princeton Architectural Press, 2010. ISBN 978-1-56898-881-8
- Otero, Lydia R.. La Calle: Spatial Conflicts and Urban Renewal in a Southwest City
Tucson: The University of Arizona Press, 2010. ISBN 978-0-8165-2888-2

Periodicals :

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Web Sites :

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