Faculty of Engineering & Technology

Human Studies in Architecture

Information :

Course Code :	ARC 323	**Level** :	Undergraduate	**Course Hours :**	2.00- Hours

Department :	Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	DINA MAAROUF AHMED MOHAMED DIEFALLAH	

Area Of Study :

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

1. Develop awareness considering the Human Studies in Architecture.
2. Share ideas and work in a team or a group.
3. Develop representation techniques.
4. Develop awareness of circulation systems, structures, form and space design and configurations.
5. Establish criticism and evaluation criteria.
6. Test different schools of design.

Description :

The course looks at architecture within the framework of human sciences. The history of human sciences in architecture, Human theories and society formation, Environment relationship, Perception, behavior and culture, Behavior and the built environment, Human needs in relation to social concepts, Humanities in contemporary architecture, Sampling, data gathering and social research tools, Applied behavioral research.

Course outcomes :

a.Knowledge and Understanding: :

1 -	Demonstrate knowledge and understanding of scientific background (theories and history) of similar building types.
2 -	Define design problems and illustrate in drawings and sketches possible solutions.
3 -	Define the principles of building technologies, including the application of structures, construction methods, materials and environmental design in relation to human needs.

b.Intellectual Skills: :

1 -	Analyze existing projects using drawings and diagrams.
2 -	Conceptualize, investigate the development of design process and space configurations through history.
3 -	Recognize architectural designs aspects that integrate social, aesthetic and technical requirements.
4 -	Criticize and evaluate different schools of architecture.

c.Professional and Practical Skills: :

1 -	Identify data and requirements for a certain building type and school of architecture.
2 -	Use appropriate graphic techniques for representation.

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| 3 - | Submit professional good looking complete data, information and drawings. |

d.General and Transferable Skills: :

1 -	Communicate effectively with other people using visual, graphic, written and verbal means.
2 -	Work in a self-directed manner.
3 -	Work coherently and successfully as a part of a team in assignments.
4 -	Manage time and meet deadlines.
5 -	Use the Internet in searching for information about specific building types through history.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
The Multisensory Nature of Perception	4	4	_
Symbolism and Aesthetic Response	4	4	_
Familiarity versus Aesthetics	4	4	_
Attributes of Residential Environments	6	6	_
Functional Categories and Basic Human Requirements	4	4	_
The Logic of Space	6	6	_

Teaching And Learning Methodologies :

| Lectures. |
| Research assignments. |
| Information collection from different sources. |
| Site Visits and field trips. |
| Class discussions, sessions and design critiques. |

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
11 Week Quiz (Second mid Term Exam).	10.00		
1ST Research work.	15.00		
2nd Research work.	15.00		
6 Week Quiz (First mid Term Exam).	10.00		
Attendance & Participation.	10.00		
Final Exam.	40.00		

Course Notes :

No course notes are required

Recommended books :

˝Rapoport, Amos. (1977). Human Aspects of Urban Form, Pergamon Press, USA.
˝Hillier, Bill. (1988). The Social Logic of Space. Cambridge University Press, UK.
˝Chermayeff, Serge. (1965), Community and Privacy. Anchor Books, USA.
˝Sanoff, Henry. (1991) Visual Research Methods in Design, Van Nostrand Reinhold, USA.
˝Smith, Peter. (1979). Architecture and the Human Dimension, The Pitman Press, UK.

Jencks, Charles. Modern Movements in Architecture, Penguin Books Ltd. 1973, USA.
Jencks, Charles. Architecture Today. Academy Editions, 1988, Uk.

Steele, James. Architecture and Computers.2001, Laurence King Publishing, London.

Periodicals :

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Web Sites :

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