

Faculty of Engineering & Technology

Graphic & Visual Skills 2

Information :

Course Code :	ARC 232	Level	:	Undergraduate	Course Hours :	3.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	Amr Abdalla Salem Bagneid	4
Lecturer	Fahim Magued Fahim Iscandar	5
Assistant Lecturer	Sameh Ibrahiem Abdul Samie Ahmed Emam	
Assistant Lecturer	Sameh Ibrahiem Abdul Samie Ahmed Emam	
Teaching Assistant	Kamal Abdeleziz Ali Selim	1
Teaching Assistant	AYA TAREK IBRAHEM ABDELHADY AHMED	
Teaching Assistant	Salma Mohamed Eltohamy Elgendy	
Teaching Assistant	Kamal Abdeleziz Ali Selim	1
Teaching Assistant	Omar Magdy Ahmed Ibrahim Elbahrawy	

Area Of Study :

By the end of this course, the student will be able to:

ÄDevelop the abilities for visualization & representation based on scientific methods. Äpply shade and shadow in architectural representation.

ADraw perspectives for architectural projects.

Description :

Architectural presentation, Shade and shadows of a dot, a line, a surface, and a volume, Shade and shadow of buildings in plans, elevations, perspectives and layouts. Architectural perspective, one and two vanishing point perspectives, computer simulated perspectives.

Course outcomes :

a.Knowledge and Understanding: :			
1 -	Understand and compare between shade and shadow.		
2 -	Understand the fundamentals of shadow (shadow of points, lines, planes, and volumes).		
3 -	Understand the fundamentals of perspective (plane of image, position of the observer, cone of vision, angles of vision, vanishing points).		
b.Intellectual Skills: :			
1 -	Compare between the different perspective views.		
2 -	Apply shadow principles in architectural projects.		



c.Professional and Practical Skills: :

1 -	Draw accurately the architectural shade and shadow.	
2 -	Draw accurately different perspective views for buildings	
3 -	Observe and describe through photography choosing best angles for shots.	
d.General and Transferable Skills: :		
1 -	Develop the ability to work in groups.	
2 -	Develop drawing and presentation skills.	
3 -	Share ideas and communicate with others.	

Course Topic And Contents :

Торіс	No. of hours	Lecture	Tutorial / Practical
1. Shadow of Points	6	2	4
2. Shadow of Points and Lines	6	2	4
3. Shadow of Planes . ÁSquares	6	2	4
4. Shadow of Planes on Broken and Curved Planes	6	2	4
5. Shadow of Planes . ÁCircles	6	2	4
6. Quiz # 1	6	2	4
7. Shade & Shadow of 3D Objects . A Pyramids and Cuboids	6	2	4
8. Shade & Shadow of 3D Objects . ÁCylinders	6	2	4
10. Shade & Shadow of 3D Objects . ÁCuboids, Chimneys and Cylinders	6	2	4
11. Quiz # 2	6	2	4
12. Shade & Shadow of 3D Objects . ÁCylinders and Cones	6	2	4
13. Architectural Applications . Ástairs	6	2	4
14. Architectural Applications . Arches, Niches and Columns	6	2	4
15. First Midterm Exam	6	2	4
16. Architectural Applications . ÁOculus, Minarets, Pilasters and Balconies	6	2	4
17. Two Vanishing Points . Ábirdos Eye, Antos Eye and Exterior Views	6	2	4
18. Two Vanishing Points Perspective (Pyramids)	6	2	4
19. Two Vanishing Points Perspective (Cylinders)	6	2	4
20. Second Midterm Exam	6	2	4
21. Two Vanishing Points Perspective (Sloped Roofs)	6	2	4
22. Two Vanishing Points Perspective (Links & Cables)	6	2	4
23. One Vanishing Point Perspective (Interior)	6	2	4
24. Final Exam	6	2	4

Teaching And Learning Methodologies :

Lectures.

Design studios.



Course Assessment :				
Methods of assessment	Relative weight %	Week No	Assess What	
Attendance	5.00			
Final Exam	20.00			
Participation	5.00			
Perspective Assignments	25.00			
Sciagraphy Assignments	25.00			
Two Midterm Exams	20.00			

Course Notes :

Recommended books :

Áshafie, Z. H. (1997).
Á. Giza: Faculty of Engineering, Cairo University.
Áshafie, Z. H. (1997).
Á. Giza: Faculty of Engineering, Cairo University.
ÁD'Amelio, J. (2004). Perspective Drawing Handbook. New York: Dover Publications.
Ánorling, E. R. (1999). Perspective Made Easy. New York: Dover Publications.
Árchitectural Magazines and Projects.

Periodicals :

Web Sites :