

Faculty of Engineering & Technology

Graphics 2

Information :

Course Code : GRA 142

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Faculty of Engineering & Technology

Instructor Information :

Title	Name	Office hours
Assistant Lecturer	Mohamed Yahia Mohamed Abdelkader	

Area Of Study :

- 1- Prepare the students to understand the concept of sectional views.
- 2- Introduce the basics of architectural drawings.
- 3- Train students to assemble some mechanical parts.

Description :

Develop student's ability to visualize and practice the techniques of graphical communication.

Course outcomes :

a.Knowledge and Understanding: :

1 -	Define the concept of sectional views and cutting planes.
2 -	Identify basics of architectural drawings.
3 -	Explain the basics of steel sections drawings.

b.Intellectual Skills: :

1 -	Apply engineering graphics techniques.
2 -	Apply imagination and creativity.

c.Professional and Practical Skills: :

1 -	Construct orthographic projections and isometrics for solid models.
2 -	Apply the sectioning rules.
3 -	Apply the basics of architectural drawing.
4 -	Create assembly drawings and steel sections.

d.General and Transferable Skills: :

1 -	Work in stressful environment and within constraints through assignments and course project.
2 -	Effectively manage tasks, times and resources.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Missing view	12	3	9

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Sectioning	24	6	18
Architectural drawing	12	3	9
Steel structure	12	3	9

Teaching And Learning Methodologies :

Interactive Lecture

Discussion

Problem-based Learning

Experiential Learning

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignment	20.00		
Final Exam	40.00		
Mid- Exam I	15.00		
Mid- Exam II	15.00		
Participation	10.00		

Course Notes :

Course and instructor notes.

Recommended books :

- Earle, J.H., ENGINEERING DESIGN GRAPHICS Pearson Prentice Hall, 11th edition, 2004.
- Bertoline, G.R., and Wiebe, E.N. FUNDAMENTALS OF GRAPHICS COMMUNICATION Mc Graw- Hill, 5th ed., 2007