

## Faculty of Engineering & Technology

### Graphics 1

#### Information :

**Course Code :** GRA 141

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

**Department :** Faculty of Engineering & Technology

#### Instructor Information :

Title	Name	Office hours
Lecturer	Mohamed Hussien Bayomy Ahmed	6
Lecturer	Maha Fathy Abdallah Elsangary	2
Lecturer	Mostafa Mohamed Reda Salah Eldin Rashed	1
Lecturer	Mohamed Hussien Bayomy Ahmed	6
Assistant Lecturer	Ahmed Amr Kadry Ahmed Shaheen	
Assistant Lecturer	Mostafa Sayed Abd El Wahed Hassan Madina	3
Assistant Lecturer	Noura Khedr Abdul raheem Ahmed	
Teaching Assistant	Ahmed Salah Rashad Ahmed Abdelhakk	
Teaching Assistant	Mahmoud Mohamed Khalaf Ahmed	2
Teaching Assistant	Eman Mohamed Hammad Ahmed	6
Teaching Assistant	Ahmed Mohamed Abdelnaby Ali Shafay	2
Teaching Assistant	Ahmed Abdelfattah Abdelaziz Abdelfattah	
Teaching Assistant	Mahmoud Mohamed Khalaf Ahmed	2
Teaching Assistant	Ahmed Salah Rashad Ahmed Abdelhakk	
Teaching Assistant	Ahmed Taher Abdelhamed Mohamed Yousef	

#### Area Of Study :

#### Description :

Techniques and skills of engineering drawing, Normal and auxiliary projections. Solid geometry. Intersections between planes and solids.

#### Course outcomes :

**a. Knowledge and Understanding: :**

1 -	Define the fundamentals of engineering drawing.
2 -	Identify sketching technique to describe solid objects.
3 -	Explain the various drawing techniques of isometry and projections.
4 -	Estimate the third view from 2 given views.

**b. Intellectual Skills: :**

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

**c. Professional and Practical Skills: :**

1 -	Gain skills in defining types of drawing and orthographic projection.
2 -	Create engineering parts using mechanical drawing.

**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
Lettering and kinds of lines	8	2	6
Geometrical constructions	8	2	6
Pictorial drawing	4	1	3
Isometric drawing	8	2	6
Projection	20	8	12
Missing View	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 :**

**Recommended books :**

**Periodicals :**

**Web Sites :**