

# Faculty of Engineering & Technology

### **Mechanical Engineering Drawing**

Information :

Course Code : MAN 241	Level	:	Undergraduate	Course Hours :	2.00- Hours
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**Department :** Department of Petroleum Engineering

#### Instructor Information :

Title	Name	Office hours	
Lecturer	Mohamed Ahmed Mahmoud Abdelwahab	0	

### Area Of Study :

The Main Goals of this course are: ÁUnderstanding the fundamental of engineering drawing using computer software. Á Ádentifying various technical drawings with necessary views and dimensions using computer software. Á ÁRecognizing the rules of drawing engineering metal sections and details. Á ÁRecognizing the rules of different mechanical drawing and assembling parts

## **Description :**

Computer-aided drafting, Mechanical details and assembly drawings, Working drawings, Geometrical tolerances, Welding symbols and details, Introduction to 3D modeling.

#### Course outcomes :

a.Knowledge and Understanding: :			
1 -	. Explain the fundamental of assembly drawings		
2 -	Describe he various mechanical assembly drawings		
b.Intellectual Skills: :			
1 -	Develop skills in visualizing the various mechanical assembly drawings		
2 -	Create own design ideas expressed in mechanical assembly drawings.		

## **Course Topic And Contents :**

Торіс	No. of hours	Lecture	Tutorial / Practical
Introduction to the fundamental of assembly drawing	4	1	3
Types of bolts and its represented drawing	8	2	6
Transmission shaft assembly	8	2	6
Bearing assembly (sliding bearing)	8	2	6
Valves assembly (non-return valves)	4	1	3
Valves assembly (Safety valves)	8	2	6
Power screw assembly (Screw Jack)	4	1	3
Coupling assembly (Rigid flange) and flexible	8	2	6

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Course Topic And Contents :				
No. of hours Lecture	<b>Tutorial / Practical</b>			
8 2	6			
	No. of hoursLecture82			

## Teaching And Learning Methodologies :

Interactive Lecturing

**Problem Solving** 

# Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments, Participation , Quizze	20.00		
Final Exam	40.00		
Midterm	30.00		
Project.	10.00		

## **Recommended books :**

Thomas, E.F., ‰undamentals of Engineering Drawing+ÉMcGraw-Hill, 2004Á ÁThomas, E.F. and Vierck, C.J., ‰ngineering Drawing and Graphic Technology+ÉMcGraw-Hill, 2001Á Á ÁHart, K.R., ‰ngineering Drawing+ÉAThe English Universities Press Ltd, 2003Á

Recommended Readings: ADobrovolsky, Machine elements, MIR Publisher Co. 2007