

## Lecture Notes

Alexandria Higher Institute of Engineering and Technology

First year Industrial Department

Second Term 2010-2011

Course Title: Design of Machine Elements

Course Code: ME142

Lecturer: Dr. Rola Afify

<b>Week</b>	<b>Title</b>	<b>Exercise</b>	<b>H.W.</b>
1, 2	Introduction Screw	Page 41 Body	
3, 4	Simple Stresses Locking devices	Page 41 Assembly Page 37 Cover	
	<b>1<sup>st</sup> quiz</b>		
5, 6	Compound Stresses	Page 37 Assembly Page 40 Housing	Sheet (1)
	<b>2<sup>nd</sup> quiz</b>		
7	Revision	Page 40 Assembly	
<b>8</b>	<b>Mid-term Exam (lecture time)</b>		
9, 10	Design of Rivets Keys and Pins	Page 43 Base Page 43 Assembly	Sheet (2)
	<b>3<sup>rd</sup> quiz</b>		
11, 12	Welding Welded joints and symbols	Page 45 Body Page 45 Assembly	Sheet (3)
	<b>4<sup>th</sup> quiz</b>		
13, 14	Belt Drive Helical spring and Bearing	Page 42 Fixed Jaw Page 42 Assembly	Sheet (4)
15	Revision Gears	Page 39 Assembly	

### Text book

- R.S. Khurmi, J.K. Gupta, (2005), "A Textbook of Machine Design", Eurasia Publishing House, First Multicolor Edition.

**Best wishes**  
**Dr. Rola Afify**