



University/Academy: Faculty/Institute: Alexandria Higher Institute of Engineering & Technology (AIET) Program: Industrial Engineering Course Code: ME142 Course Title: Design of Machine Elements Academic Year/Level: First / 1<sup>st</sup> Specialization: Mechatronic

## **Course Outline**

1- Introduction - Simple Stresses - Compound Stresses - Design of Rivets - Welding - Belt Drive

2- Screw - Locking devices - Keys and Pins - Welded joints and symbols - Helical spring and Bearing - Gears.

## **Course Description**

Explain using neat sketches and equations all of these:-IntroductionStresses (Simple & Compound)Design of RivetsWeldingBelt DriveStresses (Simple & Compound)

Identify using symbols and dimensions to all of these:-ScrewLocking devicesKeys and PinsWelded joints and symbolsHelical springBearingGearsGears

**Course Instructor:** 

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