

Faculty of Engineering & Technology

Structural Mechanics

Information :

Course Code : MEC361 **Level :** Undergraduate **Course Hours :** 3.00- Hours

Department : Mechatronics Engineering

Instructor Information :

| Title | Name | Office hours |
|---------------------|-------------------------------------|--------------|
| Associate Professor | AMR MOHAMED METWALLY ISMAIEL | 3 |
| Assistant Lecturer | Amira Khaled Hasan Mohamed Elkodama | |

Description :

Displacement and deflections, Statically indeterminate structures, Energy methods applied to bar problems, Buckling of columns, Curved beams, Analysis of bars of thin walled sections in shear, Transverse shear, torsion, shear center, Analysis of axi-symmetric shells: thin walled cylinders, spheres, cones, discontinuity stresses, Introduction to structural analysis by matrix methods, Stresses in elastic structures with applications.