

Faculty of Engineering & Technology

Stress Analysis

Information :

Course Code : MEC264

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Mechatronics Engineering

Description :

Equilibrium, Continuity, Normal force, Shearing force, Bending and twisting moment diagrams, Stresses in simply loaded elastic bars: axial loading, bending and torsion, deformation, strain Energy, Stresses in elastic and elasto-plastic bars, Residual stresses. Combined loading, Eccentric normal load, Oblique bending: combined bending and torsion, Two-dimensional stresses, Principal stresses, Maximum shear stress, Allowable stresses, Mohr's circle representation and applications.