

Faculty of Engineering & Technology

Stress Analysis

Information :

Course Code : MEC264	Level		Undergraduate	Course Hours :	3.00- Hours
Department : Mechatronics Engineering					
Instructor Information :					
Title	Name				Office hours
Lecturer	AMR MOH	HAM	1		
Teaching Assistant	Donia Wa	Donia Waheed Mohamed Abdelmonem Saleem			

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 elastoplastic 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.