

## 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 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.