

BLD224: Structural Theory and Strength of Materials II (2 Units)

Department of Building Technology

Covenant University

1. BLD224

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Shearing and Stresses, Analysis of Stress and Strain (3 dimensional), Longitudinal Stresses in Beams, Shearing Stresses in Beams, Beams of Two Materials, Combined Bending/Direct Stresses, Torsion, The Principles of Virtual Work and their Applications, Strain Energy/Complementary Energy and Applications; Deflection of Statically Determinate Beams using different approaches; Elastic Buckling of Columns and Beams; Vibration in Beams.