BLD214: Applied Mechanics for Builders (2 units)

Department of Building Technology

Covenant University
1. BLD214
1.1. BLD214: Applied Mechanics for Builders (2 units)

Forces, moments, couples; Equilibrium of simple structures; First and second moments of area; centroids; Kinematics of rigid bodies in plane motion; Applications of Newton's laws of motion; Kinetic energy and momentum analysis; Hooke's law, stresses and strains due to loading and temperature; The stress circle, deflection, deflection of beams; Shear forces and bending moments, analytical and graphical methods for structures; Design and analysis of communication towers, standards, and regulations.