

FCE 211: Engineering Geology Course Description

The course covers the following key areas; Composition and constitution of the earth. Earth movements and plate tectonics. Structural geology. Interpretation of geological maps. Weathering, erosion and denudation. Superficial movements. Physical processes in different environments. Sedimentation. Igneous activity. Metamorphism. Groundwater. Earthquakes and earthquake engineering. Rock types and their engineering properties. Geology of Kenya. Constructional stones of Kenya. Geological aspects of foundations, open excavations, tunnels, and reservoirs and dams. Geological site investigation.