

M. Sc. GEOLOGY THIRD SEMESTER

**Paper – III
303**

Sedimentary Petrology

Code: Geol

Unit – I

Weathering & Erosion; Sediment transport: modes of transport, fluid flow, movement of particles, settling velocity of sediments, transport types, Textures and sedimentary structures and their significance.

Unit – II

Classification, nomenclature and genesis of sedimentary rocks. Clastic rocks: Conglomerate, Breccia, Sandstone, and Shale. Non clastic rock: Limestone and Dolomite. Evaporite, Phosphorite, Chert, Iron and Manganese rich sediments.

Unit – III

Sedimentary environment and facies models-Marine, Non -Marine and Mixed environments.

Unit – IV

Tectonics and sedimentation, Classification, definition and description of sedimentary basins, Paleocurrent analysis and its application in basin analysis. Sedimentary basins of India.

Unit – V

Stratigraphy and Sedimentation. Concepts of stratigraphy, Vertical and lateral relationships, subsurface correlation. Modern concepts in stratigraphy.