

Syllabus of Sedimentology (G305)

Department of Geology

College of Science

University of Basrah

- Introduction to sedimentology.
- Characteristics of sediments.
- Facies of sediments.
- Factors controlling on the nature and distribution of facies.
- Mechanism of sediment transport.
- Types of sediment flow.
- Turbidity currents and their sediments.
- Pelagic sediments.
- Hemipelagic sediments.
- Contourite sediments.
- Sea-level changes and their effects on the sedimentation process.
- Measurements of sedimentation rate.
- Biological components of sediments.
- Cosmic materials.
- Mechanical effects of organisms on the sedimentation.
- Effects of changes in physico-chemical environmental conditions on sedimentation.
- Studying in details the alluvial fan sedimentary environment.
- Desert sedimentary environment, its types, sediment nature, distribution, and its sedimentary structures.
- Lake sedimentary environment and characters of its sediments.
- Fluvial sedimentary environment and its geomorphology, sediments, sedimentary structure and the depositional process.
- Lagoon sedimentary environment.
- Tidal-flats and their sediments and sedimentological process.
- Deltaic sedimentary environment; types, sediments and sedimentological process.
- Continental shelf sedimentation.
- Deep-sea sediments.
- Recent sedimentary environments of southern part of Mesopotamia.