

GEOLOGY IN CIVIL ENGINEERING

All civil engineers, dealing with the foundations of structure and the works related to dams, tunnels stability of earth slopes, etc, should have a fair knowledge of geography, climate, type of soil and geology (rock formation), etc., of the regions they are working in.

- Geology is derived from the Greek word *gen*, meaning earth, and *logos* meaning discourse.
- Geology is an earth science comprising the study of solid, the rocks from which it is composed, And the processes by which they change.
- It deals with origin, age, and structure of Earth Evolution, modification, and extinction of various surface and sub-surface physical features like mountains, plateaus, plains, valleys, basins, caves, etc.
- Materials making up the earth the study of all water bodies existing on the surface or underground physical, dynamic, and physicochemical processes operating on and within the earth
- Agents and forces involved and evolved in such processes

BRANCHES OF GEOLOGY

PHYSICAL GEOLOGY

- The study of the surface and the naturally occurring landscape of the Earth. The study of rocks from above the surface to Earth's core.

GEO TECTONICS

- A study that focuses on plate tectonics and its process. The movement of Earth's surface and the formation it created at a certain time

STRUCTURAL GEOLOGY

- It provides knowledge about the configuration of rocks in the Earth's surface. Focuses more on the structure of rocks and minerals to determine its usage.

GEOMORPHOLOGY

- It is the study of history or the origin of rocks that formed lands on Earth. It focuses on the evolution of landforms and its surface.

CRYSTALLOGRAPHY

- It is the study of internal structure and arrangement of atoms inside of crystalline materials. It furthers explain the shape, bonds, and molecular structure.

MINERALOGY

Civil Engineering Geology Lecture Notes

Raffaella Di Napoli



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