

## **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

**R Barnett**



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