

## 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

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## **Civil Engineering Geology Lecture Notes:**

## Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Civil Engineering Geology Lecture Notes**

In a global inundated with monitors and the cacophony of immediate transmission, the profound energy and mental resonance of verbal beauty usually disappear in to obscurity, eclipsed by the regular barrage of sound and distractions. However, set within the musical pages of **Civil Engineering Geology Lecture Notes**, a fascinating function of fictional elegance that impulses with raw feelings, lies an wonderful journey waiting to be embarked upon. Written by a virtuoso wordsmith, that interesting opus instructions viewers on an emotional odyssey, delicately revealing the latent potential and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect their charming writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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