

Report on Outreach Activity: Geological Formations

Date: 26/11/2024

Venue: Malnad College Of Engineering, Hassan

Introduction

The Department of Civil Engineering, Malnad College Of Engineering, organized an outreach activity on "Geological Formations" for the students of Millennium School, Hassan, on November 26, 2024. The primary objective of this initiative was to introduce young minds to the fascinating world of geology and its relevance to civil engineering.

Activity Description:

- Interactive Lectures
- A captivating lecture was delivered by Dr.M.N.Jagannathappa, Retd Professor of the Department of Civil Engineering.
- The lecture covered the fundamental concepts of geological formations, including:
 - Rock types (igneous, sedimentary, and metamorphic)
- Rock cycle
- Plate tectonics
- Geological time scale
- Common geological hazards (earthquakes, landslides, etc.)
- The presentation was enriched with visually appealing slides, diagrams, and real-world examples to enhance understanding.

Hands-on Activity:

- Students were divided into groups and provided with a variety of rock samples.
- They were guided to observe the physical properties of each rock type, such as color, texture, hardness, and mineral composition.
- Through a series of questions and discussions, students were encouraged to identify the rock types and understand their formation processes.



This outreach activity was justified for the following reasons:

- **Early Exposure to Science:** Introducing students to geological concepts at an early age can spark their curiosity and foster a lifelong interest in science.
- **Relevance to Civil Engineering:** Understanding geological formations is crucial for civil engineers in designing and constructing sustainable infrastructure.
- **Disaster Preparedness:** Knowledge of geological hazards can help communities prepare for and mitigate the impact of natural disasters.
- **Environmental Awareness:** Learning about the Earth's geological processes can promote environmental consciousness and sustainable practices.
- **Interdisciplinary Learning:** The activity integrated concepts from geology, physics, and chemistry, fostering a holistic approach to learning.

The outreach activity was highly successful in achieving its objectives. The students actively participated in the lecture and hands-on activity, demonstrating keen interest and enthusiasm. The feedback from the school authorities and teachers was overwhelmingly positive. The Department of Civil Engineering can continue to inspire young minds and contribute to the advancement of geological education.