

Department: Mining Engineering

Division: Mining Exploitation and Rock Mechanics

Level and Major: BSc, Mining Exploitation and Rock Mechanics

Course Title: General Geology

Number of Credits: 2

Prerequisite: -

Lecturer: Dr. Ardeshir Hezarkhani

Course Goals and Objectives

General Geology reviews as an application to understand the earth's characteristics.

Course Topics

- Definition of geology and engineering geology, and recognition of the technical characteristics of the earth
- Understanding the geological history of their formation environment and understanding tectonic processes and structures
- Understand the dangers of geology
- Historical geology
- Mines, drilling of deep wells (petroleum, gas and geothermal)
- Geological structures
- Earth dynamics

Reading Resources

- Earth Science by Edward J. Tarbuck, Frederick K. Lutgens and Dennis Tasa (Mar 7, 2008)
- Essentials of Geology (11th Edition) by Frederick K. Lutgens, Edward J. Tarbuck and Dennis Tasa (Jan 7, 2011)
- Rocks and Minerals (Dk Pocket Nature) by Monica Price (Mar 3, 2005)