

Department: Mining Engineering

Division: Rock Mechanics

Level and Major: Ph.D., Rock Mechanics

Course Title: Deep Drilling

Number of Credits: 3

Lecturer: Dr. Parviz Maarefvand

Course Goals and Objectives

Investigation on deep drilling methods for petroleum and geothermal resources.

Course Topics

- Drilling mechanism
- Drilling methods
- Rigs and its components
- Drilling fluid
- In-hole equipment
- Bits
- Deep drilling design
- Fishing
- Drilling risk Analysis
- Logging Analysis
- Documentation and reporting a deep drilling activity

Reading Resources

- Up-to-date articles