

Department: Mining Engineering

Division: Rock Mechanics

Level and Major: MSc, Rock Mechanics

Course Title: Advanced Slope Engineering

Number of Credits: 2

Lecturer: Dr. Parviz Maarefvand

Course Goals and Objectives

Slop stability design and the methods of analysis.

Course Topics

- Definition and importance of slope stability
- Principles of slope stability
- The factors on the instability
- The safety factor of a slope
- The methods of slope stability study
- Stabilization of slopes
- Design of stabilization
- Drainage in slopes
- Slope stability monitoring and management
- Risk analysis in slope stability

Reading Resources

- Engineering geology Dr. Memarian