

Department: Mining Engineering

Division: Rock Mechanics

Level and Major: MSc, Rock Mechanics

Course Title: Field Experiments and Instrumentation

Number of Credits: 2

Lecturer: Dr. Parviz Maarefvand

Course Goals and Objectives

Monitoring and instrumentation and in situ tests.

Course Topics

- Convergencemetry
- Field test of Flat Jack
- Pore pressure and piezometer
- Hydraulic fracture test
- Barometers
- Dilatometric field test
- Load cells and their application
- Radial Jack test
- Jointmeter
- Extensometer
- Deflectors
- Subsidence meter

Reading Resources

- Instrumentation in rock engineering