Department: Mining Engineering **Division:** Mining Exploitation

Level and Major: MSc, Mining Exploitation

Course Title: Advanced Underground Mining

Number of Credits: 3

Lecturer: Dr. Kourosh Shahriar

Course Goals and Objectives

Assessment and comparison of different underground exploitation methods.

Course Topics

- Significance of mining industry from previous to present
- Comparison of surface and underground exploration methods
- Dilution preparation and opening of mines
- Longwall exploitation method
- Mechanization in underground mines
- Auger exploitation method
- The exploitation of nearby and thick layers of coal
- Sublevel caving