

**Department:** Mining Engineering

**Division:** Rock Mechanics

**Level and Major:** MSc, Rock Mechanics

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**Course Title:** Advanced Drilling and Blasting

**Number of Credits:** 3

**Lecturer:** Dr. S.Hassan Khoshrou

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### **Course Goals and Objectives**

Introduction to the principles of blasting engineering.

### **Course Topics**

- Introduction to the principles of blasting engineering
- Discussion about theories of blasting and their application in rock failure and to achieve desirable crushing
- Blasting design for tunnel drilling
- Creating stairs and mineral exploitation