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

Level and Major: MSc, Mining Exploitation

Course Title: Advanced Drilling and Blasting

Number of Credits: 2

Lecturer: Dr. S.Hassan Khoshrou

## **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

## **Reading Resources**

• Ataee-pour, M (1391), Principles of 2D ore-body modeling, Amirkabir University of Technology Publication