Department: Mining Engineering Level and Major: MSc, Rock Mechanics Course Title: Special Topics Division: Rock Mechanics

Number of Credits: 2

Lecturer: Dr. Mehdi Irannajad

## **Course Goals and Objectives**

Thermal treatments in mineral processing- Introduction to advanced techniques and methods in mineral characterizations and processing.

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## **Course Topics**

- Definitions
- Generalities
- Sintering
- Calcination
- Roasting
- Pelletizing
- Smelting
- Thermogravimetry
- Evolved gas detection
- Differential Thermal Analysis