

Department: Mining Engineering

Division: Mining Exploration

Level and Major: MSc, Mining Exploration

Course Title: Metallogeny of Iran

Number of Credits: 2

Lecturer: Dr. Ardeshir Hezarkhani

Course Goals and Objectives

Metallogeny is the study of the genesis and regional to the global distribution of mineral deposits, with emphasis on their relationship in space and time to regional petrologic and tectonic features of the Earth's crust.

Course Topics

- Plate Tectonic Principals
- The Identification of Geochemical states
- The identification of Iranian Metallogeny states
- The discussion about big Iranian mineral deposits

Reading Resources

- Elements v.6/1, Feb 2010 D. Kirk Nordstrom RIMG v.70: Thermodynamics and Kinetics of Water-Rock Interaction (2009), MSA and GS
- Elementsv.6/1, Feb 2010 Jon Davidson Principles of Igneous and Metamorphic Petrology (2008), Cambridge University Press
- Elementsv.5/6, Dec 2009 Pierrette Tremblay The Cambridge Handbook of Earth Science Data (2009), Cambridge University Press
- Elementsv.5/1, Feb 2009 MarkThiemens RIMG v.68 - Oxygen in the Solar System (2008), MSA and GS
- Elementsv.5/5, Oct 2009 Cin-Ty Lee Isotope Geology (2008), Cambridge University Press