

Department: Mining Engineering

Division: Mining Exploration

Level and Major: Ph.D., Mining Exploration

Course Title: Exploration Projects Management

Number of Credits: 3

Lecturer: Dr. S. Hamid Sakaki

Course Goals and Objectives

Introduction to the principles of blasting engineering.

Course Topics

- General understanding of the basics of knowledge management
- Understand the importance and general concepts of project management and its place in management knowledge
- The stages and lifecycle of the project and the characteristics of each
- Integrity in project management
- Work Break Structure (types, applications each)
- Project scope management
- Software training of work break structure
- Project time management (network recognition and its components)
- How to identify the relationships between project activities
- Drawing networks
- Numbering in vector networks
- Types of networks
- Principles of estimating the time to perform an activity
- Time estimation to complete the whole project
- Concept of critical path and critical activities
- Concepts of freedom of action and floating
- Analyze the network and determine the full-time profile of activities and events
- Understanding and working with MSP software
- Project time reduction management
- Compressing time in network (Time-Cost Analysis)
- Introduction to fast tracking and crashing

- Time-cost analytical studies and determining the optimal project time
- Introduction to the concepts and factors of lag
- Estimate the resources and costs needed to carry out the project activities budgeting
- Leveling resources
- Project cost and resource management shares and differences
- Other important issues in project cost and resource management
- Understanding and working with MSP software in project cost and resource management
- Project quality management
- Project human resource management
- Project risk management
- Subcontracts and project logistics management
- Legal issues in contracts
- Project communication management
- Stakeholder management
- Complementary discussions on how to monitor and control project progress

Reading Resources

- Guide to the PROJECT MANAGEMENT BODY OF KNOWLEDGE (PMBOK Guide), Published by Project Management Institute, Sixth Edition, Newtown Square, Pennsylvania 19073-3299 USA
- PMBOK 5 in simple language, Nader Khorrami Rad, 1st Edition, 2013, www.khorramirad.com
- PMP" Exam Prep, Rapid Learning to Pass ~1"P'MsP Exam-On Your FIRST Try!, RITA MULCAHY
- Project Management Body of Knowledge- PMBOK guide, 6th Edition Translated by Ali Hosseini, Abdolrahim Kalantari, Zahra Akbarian, Publisher: The Future of Knowledge
- Project Management and Planning, and Applied Project Control, Mahmood Naderipour, Kouhsar Publications, 2011
- Project Planning and Control, Mahmood Naderipour, Management and Planning Organization of Iran (Planning and Budget Organization), 2005