Department: Mining EngineeringDivision: Mining Exploration and Mineral ProcessingLevel and Major: BSc, Mining Exploration and Mineral Processing

Course Title: Laboratory Of Mineral Processing Corequisite: Principles Of Mineral Processing Number of Credits: 1 Lecturer: Dr. Mehdi Irannajad

Course Goals and Objectives

Introduction to operations with various equipment, process design, data processing, flow sheet development.

Course Topics

- General instruction, safety in laboratory
- Sample preparation
- Liberation degree determination
- Particle size distribution
- Operation with crushers and mills
- Work index determination
- Operation with screens, classifiers and hydrocyclons
- Operation with gravity separation equipment
- Operation with magnetic and electrical separators
- Flotation of different minerals

Reading Resources

- References indicated in principles of ore dressing course
- A. Z. M. Abouzeid, Mineral Processing Laboratory Manual