

Department: Mining Engineering

Division: Mining Exploitation and Rock Mechanics

Level and Major: BSc, Mining Exploitation and Rock Mechanics

Course Title: Fluid Mechanics

Number of Credits: 3

Prerequisite: Mathematics1

Lecturer: Dr. Saeid Nikoosokhan

Course Goals and Objectives

Teaching fundamentals of Fluid Mechanics and its applications in Mining Engineering

Course Topics

- Fluid Mechanics in Mining Engineering and Petroleum Geomechanics
- Fluid Properties
- Fluid statics
- Fluid flow, main concepts and equations
- Dimensional analysis
- Laminar and Turbulent
- Compressible Flow

Reading Resources

- V.L Streeter , E.B. Wylie, Fluid Mechanics, A.R Entezari