



ECONOMIC AND SOCIETAL ISSUES IN MINING AND RECYCLING

External experts from industry

Work load: 16h (8 seminars x 2 hours), 30h group project, 2 days of industrial visits

Number of credits: 5 ECTS

Course code: GEOL1045-1

Source : <http://www.emerald.ulg.ac.be/?q=economic-and-societal-issues-mining>

► *Course contents:*

Industrial representatives will provide specialized seminars to introduce topics that are not traditionally covered by Academic Education. Here is an example of the subjects that have been covered in the previous years:

- Bankable Feasibility study
- Corporate responsibility: social and environmental aspects
- Health and Safety in open pit mines and plants
- Funding of Junior mining companies
- Legislative aspects of mining exploitation
- Mining codes and taxation issues
- Introduction to benchmarking software
- Introduction to financial modelling

► *Intended Learning Outcomes:*

- To be aware of the importance of the legal, social and environmental aspects of mine exploitation
- To know basic safety rules to follow in a processing plant environment
- To be able to detect unsafe behavior or potentially harmful situation in a processing plant environment or a quarry
- To review and to criticize one company commitment and achievement regarding social and environmental aspects
- To briefly analyze one country's political and legislative policy regarding mine exploitation and their impacts



▶ *Prerequisites and co-requisites:*

None

▶ *Planned learning activities and teaching methods:*

Interactive seminars and workshops with professionals.

Open debate on questions such as environmental impact, law, ethics, etc.

Supervision of a joint progress report.

▶ *Recommended or required readings:*

Documents and reports from companies provided by the invited experts.

▶ *Assessment methods and criteria:*

Groups of students are formed to analyze a real case on the aspects covered by the seminars. Each student specifically focuses on one of the aspects but has to review those covered by the other members of the group. Key facts are orally defended by each student possibly questioned on any part of the joint report. Final marks are the result of the assessment of each student's contribution to the joint written report and (the oral presentation).

Students who failed the first examination have the opportunity to improve the chapter that he/she was responsible for in the joint report. He/she also writes a short report addressing the Bankable feasibility aspects of his or her mining project. The final resit mark takes the new written report into account.

▶ *Contribution to EIT's Overarching Learning Outcomes:*

This course is a clear contribution to:

OLO7: by inviting students to work in team and exert their leadership. The report is an exercise in trying to develop a holistic view of the raw materials industrial sector by incorporating both technical and non-technical (social, environmental) aspects. The multinational character of the groups is also a strong contribution to developing interpersonal skills.

OLO2: Discussions/open debates with the experienced invited-speakers about economic and technological aspects

OLO1: Study of social, legal, economical and safety problems at current and past mine sites for future predictions of the industry