

SYLLABUS

Exploration 7.5 credits

07018K

Prospektering

Course syllabus admitted: Autumn 2024 Sp 1 - Present

DECISION DATE
2024-02-14

Exploration 7.5 credits O7018K

Prospektering

Second cycle, O7018K

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	G U 3 4 5	Malmgeologi	Earth Science and Physical Geography

Main field of study

Geosciences

Entry requirements

90 credits in geoscience.

Selection

The selection is based on 30-285 credits

Course Aim

The course is an introduction to exploration for minerals and metals. After completing the course, the student is expected to have the ability to:

- describe long-term market trends and price-controlling factors for minerals and metals.
- describe and explain geological/geochemical/geophysical exploration methods and how these relate to each other to find mineral resources.
- describe the overall legal framework (including exploration permit) for exploration in Sweden.

Contents

During the course, students work with various aspects of exploration work and its methods for finding new ore deposits. Different geoscientific methods in exploration are reviewed as well as the types of information one can expect from the different methods and how this information can be linked together to achieve the goal.

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The course is given as lectures, in combination with exercises. Lectures cover market trends with relevance to mineral exploration as well as the geoscientific methods used in exploration. Project assignment provides in-depth information within individual exploration methods and is presented in seminar form. This gives the students a theoretical knowledge base to be able to describe and explain the methods and how they are connected overall, which is practiced in the form of exercises.

Document management takes place in the CANVAS learning platform.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. The skill to describe, explain and connect different exploration methods is examined through practice tasks, a written exam and a project task that is presented in seminar form. The grading scale pass/fail is applied in the examination of the exercise tasks and the project task. A graded grading scale is used for the written exam. Passed results on all mandatory exercises and the project assignment as well as the exam are required to demonstrate the individual fulfillment of the course objectives.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

The course is given at an advanced level and is included in the Civil engineering programme Naturresursteknik and in the Mastersprogramme Exploration and Environmental Geosciences.

Course offered by

Department of Civil, Environmental and Natural Resources Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0006	Exercises	U G#	1	Mandatory	A12	
0008	Written exam	G U 3 4 5	5	Mandatory	A21	
0010	Assignment	U G#	1.5	Mandatory	A24	

Study guidance

Study guidance for the course is to be found in our learning platform Canvas before the course starts. Students applying for single subject courses get more information in the Welcome letter. You will find the learning platform via My LTU.

Last revised

by Assistant Director of Undergraduate Studies Eva Gunneriusson, Department of Civil, Environmental and Natural Resources Engineering 2024-02-14

Syllabus established

by Eva Gunneriusson 2010-02-19