SYLLABUS

Geology of the Arctic 7.5 credits O7024K

Geologi i Arktis

Course syllabus admitted: Autumn 2023 Sp 1 - Present

DECISION DATE
2021-06-14

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LULEÅ TEKNISKA UNIVERSITET

Geology of the Arctic 7.5 credits O7024K

Geologi i Arktis

Second cycle, O7024K

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

Entry requirements

90 credits in geoscience, or equivalent. Good knowledge in English, equivalent to English B/6.

Selection

The selection is based on 30-285 credits

Course Aim

The goal is for the student to after completed course be able to 1) explain the main geological models for regional tectonic evolution of the Fennoscandian Shield, and other Arctic regions, and 2) apply these models to interpret the secular and spatial distribution of mineral deposits in the region, and 3) communicate geological information in a scientifically correct way, through oral presentation.

Contents

Geological framework for how mineral deposits are distributed in Arctic Fennoscandia, Greenland, Siberia/Kola and North America.

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 a series of lectures, in combination with seminars. The lectures shall provide the regional scale geology and important ore deposits of the Arctic to give the students a theoretical basis for being able to describe the geology of the Arctic. The seminars give the students the possibility to implement the knowledge from the lectures on a certain area and to deepen their knowledge on specific topics. The seminars will cover the different geographic areas of the Arctic and will be conducted as individual presentations on specific related topics on each sub-area. The students practice scientific communication of Arctic geology through oral presentations during seminars.

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 ability to describe the regional geology and ore deposits of the Arctic is assessed with oral seminar presentations and a written exam. Pass grades on all mandatory seminars and the exam are necessary to demonstrate the individual achievement of the course aims. The development towards the achievement of these aims is continuously monitored through the seminars, throughout the course. Binary grading (pass/fail) is applied for the seminars.

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.

Course offered by

Department of Civil, Environmental and Natural Resources Engineering

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Written exam	G U 3 4 5	5.5	Mandatory	A21	
0002	Seminars	U G#	2	Mandatory	A21	

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 2021-06-14

Syllabus established

by Assistant Director of Undergraduate Studies Eva Gunneriusson, Department of Civil, Environmental and Natural Resources Engineering 2021-02-17