

SYLLABUS

Isotope Geochemistry 7.5 credits L7020K

Isotopgeokemi

Course syllabus admitted: Autumn 2015 Sp 1 - Present

**DECISION DATE
2015-02-11**

Isotope Geochemistry 7.5 credits L7020K

Isotopgeokemi

Second cycle, L7020K

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

Entry requirements

90 credits in geoscience

Selection

The selection is based on 30-285 credits

Examiner

Glenn Bark

Course Aim

Important learning objectives in this course are:

- be able to describe the most important radioactive and stable isotope systems used in studies of geo-materials
- be able to interpret isotope data from dating of rocks and from different biogeochemical processes at a basic level
- be able to describe the basic principles of mass spectrometry

Contents

Fractionation of radioactive and stable isotopes Mass spectrometry Dating methods Radioactive isotopes as tracers for geochemical processes

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 and lessons.

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 and interpret isotope data are controlled with written exam and assignments

Overlap

The course L7020K is equal to KGL020

Literature. Valid from Autumn 2014 Sp 1

Faure, G., Mensing. T.M. 2005. Isotopes. Principles and Applications

Course offered by

Department of Civil, Environmental and Natural Resources Engineering

Items/credits

Number	Type	Credits	Grade
0004	Written exam	6	G U 3 4 5
0005	Assignments	1.5	U G#

Last revised

by Eva Gunneriusson 2015-02-11

Syllabus established

Course plan approved by the Department of Chemical Engineering and Geosciences 2007-02-28.