Module title: Mineral Resources in Space and Time
Abbreviation: 04-GEO-RE3-162-m01

Module coordinator: holder of the Professorship of Geodynamics and Geomaterials Research
Module offered by: Institute of Geography and Geology

ECTS: 5
Method of grading: numerical grade
Only after succ. compl. of module(s): --
Duration: 1 semester
Module level: graduate
Other prerequisites: --

Contents
The course provides an overview of the multitude of mineral deposits -- essential georesources for the sustainable utilization of planet Earth. In particular, processes that can lead to the economic concentration of mineral resources will be discussed using examples of major deposit types. This includes magmatic, hydrothermal and sedimentary processes that resulted in the formation of economically viable deposits of ore minerals, solid fuels and industrial minerals.

Intended learning outcomes
The students obtain basic, up-to-date insights into the geology of mineral deposits on the basis of concrete examples. Furthermore they obtain the ability to classify known and new mineral deposits/occurrences in a genetic way, thus laying the foundation for optimising future exploitation and exploration strategies.

Courses
(type, number of weekly contact hours, language — if other than German)
V (2)
Module taught in: English

Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
written examination (approx. 45 minutes)
Assessment offered: Once a year, winter semester
Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
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Module appears in
Master’s degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016)
Master’s degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)