

Module title		Abbreviation
Aufbaumodul Arbeitsmethoden (LGy)		09-GeoGy-AM-MT-092-mo1
Module coordinator		Module offered by
Managing Director of the Institute of Geography and Geology		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Regarding the compulsory area: Introduction to "Cartography" and to the collection and processing of geodata. Core compulsive courses: a) quantitative or qualitative regional analysis or b) working methods system solid earth. Concerning a) Procedure of quantitative area studies, multivariate statistical processes, processes of regional modelling and simulation. Or: Processes of qualitative social and regional research. Presentation and discussion of methods, criticism of methods. Application of methods based on typical examples. Concerning b) Basic observations on geological materials that can already be made in the field and which can lead to a first interpretation of geological processes, which took place, as well as the creation of value of geomaterials. Students will be provided with distinctive features and characteristics of the most important rock-forming and economically relevant minerals by means of selected visuals. Subsequently, the classification of the most important sedimentary, igneous and metamorphic rock types will be elucidated and practised on the basis of their in the handpiece identifiable mineral existence and structure. Or: In the following modular section, the understanding of two-dimensional display of three-dimensional display of geological phenomena like the geographical distribution of different rock types or tectonic structures will be developed in form of geological maps and sections as well as simple structural-geological diagrams.</p>		
Intended learning outcomes		
<p>Mandatory part: Basics of Cartography and use of geodata. Mandatory course: Quantitative and procedural skills will be applied to regional-analytical methods, skills of evaluation and assessment of the application and efficiency of processes. Students will be able to identify the most important mineral types in the handpiece and name and interpret rock samples, as far as it is possible without using additional analytical tools, correctly. or: They will possess the ability to interpret geological maps properly and to display geological field observations in maps, profiles and appropriate diagrams.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
<p>This module has 5 components; information on courses listed separately for each component.</p> <ul style="list-style-type: none"> • 09-GeoGy-AM-MT-1-092, 09-GeoGy-AM-MT-2-092, and 09-GeoGy-AM-MT-3-092: S (no information on language and number of weekly contact hours available) • 09-GeoGy-AM-MT-4-092: Ü (no information on language and number of weekly contact hours available) • 09-GeoGy-AM-MT-5-092: V + T (no information on language and number of weekly contact hours available) 		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>This module has the following 5 assessment components. To pass the module as a whole students must pass the last assessment component and one of the remaining four.</p> <p>Assessment in module component 09-GeoGy-AM-MT-1-092: Quantitative Regionalanalyse (LGy) (Quantitative Regional Analysis; Teaching Degree Gymnasium), in module component 09-GeoGy-AM-MT-2-092: Qualitative Regionalanalyse (LGy) (Qualitative Regional Analysis; Teaching Degree Gymnasium), and in module component 09-GeoGy-AM-MT-3-092: Mineral- und Gesteinsbestimmung (LGy) (Mineral and Rock Identification; Teaching Degree Gymnasium) :</p> <ul style="list-style-type: none"> • 5 ECTS credits, numerical grading • written examination (approx. 30 minutes) or oral examination of one candidate each (approx. 30 minutes) 		

Assessment in module component 09-GeoGy-AM-MT-4-092: Geologische Karten und Strukturen (LGy) (Geological Maps and Structures; Teaching Degree Gymnasium)

- 5 ECTS credits, numerical grading
- a) written examination (approx. 30 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) term paper (approx. 20 pages)

Assessment in module component 09-GeoGy-AM-MT-5-092: Kartographie und Geodaten (Cartography and Geo-data)

- 5 ECTS credits, numerical grading
- written examination (approx. 75 minutes) or practice work (creating approx. 3 maps or diagrams, approx. 30 hours total), weighted 1:1

Allocation of places

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Additional information

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Workload

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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

keinem Studiengang zugeordnet