



Subdivided Module Catalogue
for the Subject
Geography
with the degree "Exchange Austauschprogramm"
(ECTS credits)

Examination regulations version: 2025
Responsible: Faculty of Arts, Historical, Philological, Cultural and Geographical
Studies
Responsible: Institute of Geography and Geology
Responsible:

Abbreviations used

Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

unknown

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

unknown

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page
EAGLE				
o4-GEO-TB2-162-m01	Applications of Earth Observation	5	NUM	20
o4-GEO-MB1-162-m01	Digital Image Analysis and GIS	5	NUM	8
o4-GEO-MB1-242-m01	Introduction to Spatial Data Analysis Software	5	NUM	9
o4-GEO-MET5-212-m01	Cloud Computing in Remote Sensing	5	NUM	10
o4-GEO-OMA11-242-m01	Earth Observation Cloud Computing	5	NUM	12
o4-GEO-MET8-212-m01	Active Remote Sensing Systems	5	NUM	11
o4-GEO-OMA2-242-m01	Introduction to Active remote sensing systems	5	NUM	13
o4-GEO-TB3-242-m01	Scientific Publishing and Writing in Earth Observation	5	B/NB	21
o4-GEO-SOS5-212-m01	Scientific Writing	5	NUM	19
o4-GEO-OMA7-242-m01	Introduction to Spatial Python	5	NUM	15
o4-GEO-OMA24-242-m01	Innovative Earth Observation Methods	5	NUM	14
o4-GEO-URB1-242-m01	Global to local Earth Observation of Urbanization	5	NUM	23
o4-GEO-RE4-212-m01	Urban Remote Sensing	5	NUM	16
o4-GEO-URB2-242-m01	Urban Remote Sensing	5	NUM	25
o4-GEO-URB12-242-m01	Remote Sensing of Urban Areas	5	NUM	22
o4-GEO-URB13-242-m01	Risk and Disaster Earth Observation	5	NUM	24
o4-GEO-RE5-212-m01	Risk and Disaster Earth Observation	5	NUM	17
o4-GEO-SOS12-242-m01	Science Communication	5	B/NB	18
GEOSPHERE				
o4-Geo-GS-RV1-252-m01	Environmental challenges I	5	NUM	7
o4-Geo-GS-PG1-252-m01	Earth surface processes and landforms in a changing world	5	NUM	5
o4-Geo-GS-PG2-252-m01	Human-environmental interactions	5	NUM	6
o4-Geo-GS-Clim1-252-m01	Man-made climate change, implications and mitigation	5	NUM	4
Interdisciplinary Courses				

Module title		Abbreviation
Man-made climate change, implications and mitigation		o4-Geo-GS-Clim1-252-mo1
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
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Intended learning outcomes		
--		
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 can be chosen to earn a bonus)		
written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester		
Allocation of places		
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Earth surface processes and landforms in a changing world		o4-Geo-GS-PG1-252-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
--		
Intended learning outcomes		
--		
Courses (type, number of weekly contact hours, language — if other than German)		
S (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 can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester		
Allocation of places		
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Human-environmental interactions		04-Geo-GS-PG2-252-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
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Intended learning outcomes		
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Courses (type, number of weekly contact hours, language — if other than German)		
S (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 can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester		
Allocation of places		
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.		
Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Environmental challenges I		o4-Geo-GS-RV1-252-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
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Intended learning outcomes		
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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 can be chosen to earn a bonus)		
written examination (approx. 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Digital Image Analysis and GIS		o4-GEO-MB1-162-mo1
Module coordinator		Module offered by
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
The module comprises the following practical topics: Managing and geoprocessing of raster and vector data including digitization and analysis/ visualization of geodata / preprocessing of optical remote sensing data (geometric and atmospheric corrections, dimension reduction) / different approaches, algorithms, sampling and validation strategies for validation / change detection, vegetation indices / basics in the derivation of geophysical and biophysical parameters (e.g. LAI, FAPAR, Chlorophyll content of leafs, Land Surface Temperature, Surface Albedo)		
Intended learning outcomes		
The seminar aims at improving the methodological skills of the participants in digital image processing and the use of Geographical Information Systems.		
Courses (type, number of weekly contact hours, language — if other than German)		
Ü (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 can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages) 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) creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Introduction to Spatial Data Analysis Software		04-GEO-MB1-242-m01
Module coordinator		Module offered by
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
The module comprises the following practical topics: Managing and geoprocessing of raster and vector data including digitization and analysis/ visualization of geodata / preprocessing of optical remote sensing data (geometric and atmospheric corrections, dimension reduction) / different approaches, algorithms, sampling and validation strategies for validation / change detection, vegetation indices / basics in the derivation of geophysical and biophysical parameters (e.g. LAI, FAPAR, Chlorophyll content of leafs, Land Surface Temperature, Surface Albedo)		
Intended learning outcomes		
The seminar aims at improving the methodological skills of the participants in digital image processing and the use of Geographical Information Systems.		
Courses (type, number of weekly contact hours, language — if other than German)		
Ü (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 can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages) 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) creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Cloud Computing in Remote Sensing		04-GEO-MET5-212-m01
Module coordinator		Module offered by
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Google Earth Engine is a cloud-based geospatial processing platform allowing for planetary-scale analysis. Next to a large amount of raw processing power provided by Google's computational infrastructure, Earth Engine offers a rich data catalog which stores several petabytes of publically available and analysis ready geospatial data sets. Topics covered are vector and raster data manipulation, working with ImageCollections, time-series analysis, classification, iteration, visualization and animation of spatial data.		
Intended learning outcomes		
Students will be introduced to the platform and gain fundamental knowledge about the usage of Google Earth Engines processing power and data offer.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (1) + Ü (1) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages) 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) Assessment offered: Once a year, summer semester creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Active Remote Sensing Systems		04-GEO-MET8-212-m01
Module coordinator		Module offered by
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Methodological and technical basics of active remote sensing systems, e.g. LiDAR and SAR, are presented. The basics of data collection, processing and interpretation will be discussed and demonstrated on selected case studies. Using example datasets, the processing of active remote sensing data using appropriate software will be demonstrated and practiced.		
Intended learning outcomes		
In this course, students learn about the functional principle, basics of data processing and possible applications of selected active remote sensing systems. The strengths and limitations of the respective methods will be explained and discussed.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (1) + Ü (1) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages) 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) Assessment offered: Once a year, summer semester creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Earth Observation Cloud Computing		o4-GEO-OMA11-242-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
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Intended learning outcomes		
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Courses (type, number of weekly contact hours, language — if other than German)		
S (1) + Ü (1) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) 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) creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title			Abbreviation
Introduction to Active remote sensing systems			o4-GEO-OMA2-242-m01
Module coordinator		Module offered by	
--		Institute of Geography and Geology	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	--	--	
Contents			
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Intended learning outcomes			
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Courses (type, number of weekly contact hours, language — if other than German)			
S (1) + Ü (1) Module taught in: English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)			
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) 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) creditable for bonus			
Allocation of places			
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Additional information			
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Workload			
150 h			
Teaching cycle			
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Referred to in LPO I (examination regulations for teaching-degree programmes)			
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Module title		Abbreviation
Innovative Earth Observation Methods		o4-GEO-OMA24-242-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
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Intended learning outcomes		
--		
Courses (type, number of weekly contact hours, language — if other than German)		
S (1) + Ü (1) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) 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) creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Introduction to Spatial Python		o4-GEO-OMA7-242-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
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Intended learning outcomes		
--		
Courses (type, number of weekly contact hours, language — if other than German)		
S (1) + Ü (1) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) 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) creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Urban Remote Sensing		04-GEO-RE4-212-m01
Module coordinator		Module offered by
holder of the Professorship of Geodynamics and Geomaterials Research		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Urban space as human living space is discussed and urban spaces are characterized. The special surface properties in the settlement area as well as their representation in satellite image data are learned. The classification of settlement areas and their surrounding areas are practiced.		
Intended learning outcomes		
The students learn remote sensing methods that are particularly relevant for the characterization of urban spaces. You will be able to select and use suitable image data for processing urban issues in remote sensing.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (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 can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) 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) Assessment offered: Once a year, winter semester		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Risk and Disaster Earth Observation		04-GEO-RE5-212-m01
Module coordinator		Module offered by
holder of the Professorship of Geodynamics and Geomaterials Research		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
The module focuses the georisks and environmental disasters.		
Intended learning outcomes		
The students learn synthesis and integration of their knowledge on georisks. They are able to consider risks and disasters.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (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 can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) 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) Assessment offered: Once a year, winter semester		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Science Communication		04-GEO-SOS12-242-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
--		
Intended learning outcomes		
--		
Courses (type, number of weekly contact hours, language — if other than German)		
S (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 can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages) 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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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Scientific Writing		04-GEO-SOS5-212-m01
Module coordinator		Module offered by
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Existing articles will be discussed and evaluated with regard to their content and writing. Moreover the structure will be discussed and guidelines provided. Individual training of article writing will be part of it as well. Relevant programs will be introduced (e.g bibliography software).		
Intended learning outcomes		
Articles will be discussed with regard to its scientific content and goal to ensure high quality articles.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (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 can be chosen to earn a bonus)		
term paper (approx. 15 pages) 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) Assessment offered: Once a year, winter semester		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Applications of Earth Observation		04-GEO-TB2-162-m01
Module coordinator		Module offered by
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
The lecture addresses applications of remote sensing of the atmosphere, the oceans, and particularly the land surface. The presented materials include among others applications in geography, environmental planning, ecology, biology, oceanology, soil science, geology, atmospheric science, but also e.g. pollution control (monitoring) and natural resource management. Which research questions can be answered by the means of Earth Observation and geoanalysis? The lecture comprises commonly used methodological approaches for the derivation of the different parameters. The covers the issue of implementation of the remote sensing technology into practice, e.g. the implementation of information systems. It outlines at selected examples, how remote sensing based results can be transferred to the workplace of professionals also beyond science.		
Intended learning outcomes		
The lecture gives a broad overview about the applications of remote sensing. The participants will learn how the different disciplines of environmental sciences and studies utilize the potentials of active and passive sensors for quantification and assessment.		
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 can be chosen to earn a bonus)		
written examination (approx. 45 minutes) 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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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title		Abbreviation
Scientific Publishing and Writing in Earth Observation		04-GEO-TB3-242-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
--		
Intended learning outcomes		
--		
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 can be chosen to earn a bonus)		
term paper (approx. 15 pages) 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		
--		
Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module title			Abbreviation
Remote Sensing of Urban Areas			o4-GEO-URB12-242-mo1
Module coordinator		Module offered by	
--		Institute of Geography and Geology	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	--	--	
Contents			
--			
Intended learning outcomes			
--			
Courses (type, number of weekly contact hours, language — if other than German)			
S (1) + Ü (1) Module taught in: English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)			
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) 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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Workload			
150 h			
Teaching cycle			
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Referred to in LPO I (examination regulations for teaching-degree programmes)			
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Module title			Abbreviation
Global to local Earth Observation of Urbanization			o4-GEO-URB1-242-m01
Module coordinator		Module offered by	
--		Institute of Geography and Geology	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	--	--	
Contents			
--			
Intended learning outcomes			
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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 can be chosen to earn a bonus)			
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) 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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Workload			
150 h			
Teaching cycle			
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Referred to in LPO I (examination regulations for teaching-degree programmes)			
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Module title			Abbreviation
Risk and Disaster Earth Observation			o4-GEO-URB13-242-mo1
Module coordinator		Module offered by	
--		Institute of Geography and Geology	
ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	Module level	Other prerequisites	
1 semester	--	--	
Contents			
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Intended learning outcomes			
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Courses (type, number of weekly contact hours, language — if other than German)			
S (1) + Ü (1) Module taught in: English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)			
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) 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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Workload			
150 h			
Teaching cycle			
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Referred to in LPO I (examination regulations for teaching-degree programmes)			
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Module title		Abbreviation
Urban Remote Sensing		04-GEO-URB2-242-m01
Module coordinator		Module offered by
--		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
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Intended learning outcomes		
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Courses (type, number of weekly contact hours, language — if other than German)		
S (1) + Ü (1) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) 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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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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