

Module Catalogue for the Subject

Applied Earth Observation and Geoanalysis (EAGLE)

as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Examination regulations version: 2024 Responsible: Faculty of Arts, Historical, Philological, Cultural and Geographical Studies Responsible: Institute of Geography and Geology

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The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	40	8
Theoretical Basics	15	9
Metholodological Basics	15	13
Practical Application	10	17
Compulsory Electives	50	20
Overarching Methods and Applications (OMA)	10-20	21
Environment (ENV)	0-30	47
Urban (URB)	0-30	68
Soft Skills (SOS)	5-15	86
Thesis	30	97



Learning Outcomes

German contents and learning outcome available but not translated yet.

Wissenschaftliche Befähigung

- Das Master#Studium der Applied Earth Observation and Geoanalysis (EAGLE) vertieft die Lehr# und Forschungsinhalte der geographischen Fernerkundung. Der Studiengang ist in einen Pflicht#, Wahlpflichtbereich untergliedert und bereitet auf eine qualifizierte Erwerbstätigkeit vor. Das Ziel der Ausbildung ist es, den Studierenden fundierte und detaillierte Kenntnisse aus den wichtigsten Teilgebieten der geographischen Fernerkundung zu vermitteln und sie mit modernen Methoden des geographischen und fernerkundlichen Denkens und Arbeitens vertraut zu machen. Deshalb wird auf das Verständnis der fundamentalen geographischen Begriffe und Theorien sowie auf einige grundlegende Methodenkenntnisse und die Entwicklung typischer Denkstrukturen besonderer Wert gelegt. Zentrales Lernziel ist somit der Erwerb der Fähigkeit, räumliche Strukturen und Entwicklungsprozesse zielgerichtet zu analysieren, zu dokumentieren und zu bewerten. Auch die Fähigkeit zum selbständigen wissenschaftlichen Arbeiten soll massiv gefördert werden.
- Der anwendungsbezogene englischsprachige Masterstudiengang bietet Möglichkeiten der Vertiefung und Spezialisierung und bereitet auf eine hoch qualifizierte Berufstätigkeit im akademischen oder im angewandten Bereich vor.
- Vertiefung des im Rahmen des ersten berufsbefähigenden Studiums erworbenen geo# und raumwissenschaftliches Fachwissens und Erweiterung des methodischen und analytischen Ansatzes; Vertiefung der Kenntnisse über die Zusammenhänge innerhalb der eigenen Disziplin und mit benachbarten Disziplinen, Befähigung komplexe, insbesondere interdisziplinäre, Probleme und Aufgabenstellungen im Umweltbereich zu erkennen und zu analysieren, zu formulieren und – unter Zuhilfenahme von selbst recherchierter Fachliteratur – zu lösen; Vertiefung und Erweiterung der Befähigung, über geographische, geo# und raumwissenschaftliche Inhalte und Probleme sowohl mit Fachkollegen und # kolleginnen als auch mit einer breiteren Öffentlichkeit zu kommunizieren; Vertiefung und Erweiterung der Befähigung, sowohl einzeln als auch als Mitglied internationaler Gruppen zu arbeiten und Projekte effektiv zu organisieren und durchzuführen sowie in eine entsprechende Führungsverantwortung hineinzuwachsen;
- Befähigung, zukünftige Probleme, Technologien und wissenschaftliche Entwicklungen in den Geo# und Raumwissenschaften zu erkennen und entsprechend in die Arbeit einzubeziehen; durch die Vertiefung wissenschaftlicher, technischer und sozialer Kompetenz (u.a. Abstraktionsvermögen, Team# und Kommunikationsfähigkeit) auf die Übernahme von Führungsverantwortung vorbereitet zu sein.

Befähigung zur Aufnahme einer Erwerbstätigkeit

- Definition, Reflexion und Bewertung von Zielen für Lern# und Arbeitsprozesse sowie eigenständige und nachhaltige Gestaltung von Lern# und Arbeitsprozessen: Praxisbezug: Studierende sind in der Lage, theoretisches Wissen in der Praxis anzuwenden
- Problemlösungskompetenz: Absolventen/innen können mit wissenschaftlichen Methoden auch unbekannte Herausforderungen zu analysieren und zielgerichtet zu bearbeiten.
- Teamfähigkeit / Konfliktkompetenz: Absolventen /innen sind in der Lage, konstruktiv und zielorientiert in einem heterogenen, teilweise internationalem, Team zusammenzuarbeiten, unterschiedliche Ansichten produktiv zur Zielerreichung zu nutzen und mögliche Konflikte zu bearbeiten.
- Zeitmanagement: Absolventen/innen können unterschiedliche Aufgaben parallel und unter Zeit# und Erfolgsdruck auch bei widrigen Rahmenbedingungen erfolgreich bearbeiten.

Persönlichkeitsentwicklung

Master's with 1 major Applied Earth Observation	JMU Würzburg • generated 30-Mär-2024 • exam. reg. data record Master	page 5 / 99
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- Diskussionskultur und Teamfähigkeit: Entwicklung der Diskussionsbereitschaft und Befähigung zur Teamarbeit.
- Interkulturelle Kompetenz: Die Absolventen /innen können ihre erworbenen Kompetenzen in unterschiedlichen interkulturellen Kontexten anwenden.
- Die Absolventen /innen können sich sicher in einem heterogenen Umfeld bewegen und andere Meinungen konstruktiv auf ein gemeinsames Ziel einbinden. Sie sind kritikfähig.

Befähigung zum gesellschaftlichen Engagement

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• Ethisches Handeln: Die Absolventen /innen können gesellschaftliche, naturwissenschaftliche, kulturelle wie auch wirtschaftliche Entwicklungen vergleichen, kritisch reflektieren und begründet eigene Positionen beziehen. Sie haben die Fähigkeit entwickelt, ihre Kompetenzen in partizipative Prozesse einzubringen.

Abbreviations used

Course types: \mathbf{E} = field trip, \mathbf{K} = colloquium, \mathbf{O} = conversatorium, \mathbf{P} = placement/lab course, \mathbf{R} = project, \mathbf{S} = seminar, \mathbf{T} = tutorial, $\ddot{\mathbf{U}}$ = exercise, \mathbf{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:

ASPO2015

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

13-Dec-2023 (2023-108)

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.



Module Catalogue for the Subject Applied Earth Observation and Geoanalysis (EAGLE) Master's with 1 major, 120 ECTS credits

Compulsory Courses

(40 ECTS credits)



Module Catalogue for the Subject Applied Earth Observation and Geoanalysis (EAGLE) Master's with 1 major, 120 ECTS credits

Theoretical Basics

(15 ECTS credits)

Introduction to Remote Sensing and Geoanalysis 04-GEO-TB1-162-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 "Introduction to Remote Sensing" ensures that participants will gain a solid understanding of the lowing topics: the role of remote sensing in nowadays world / basics of electromagnetic radiation / history remote sensing and image acquisition platforms / satellite orbits and orbit geometry / current spaceborne sors / impacts of the atmosphere / geocorrection of digital imagery / radiometric correction of digital image principles of image classifications / time series and big data / geodata concepts / geodata standards / geovisualization / the job market for remote sensing and geo IT specialists	ne fol- of sen- es / odata				
Intended learning outcomes					
The lecture provides participants with a solid and comprehensive theoretical background of the backgroun physical principles of remote sensing, gives an introduction into digital image processing, as well as geod concepts, standards and future developments	id and ata				
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 w module is creditable for bonus)	nether				
written examination (approx. 45 minutes) Language of assessment: English or German (assessment will be held in English; in addition, the examine where possible, decide to hold assessment in German)	r may,				
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
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)					
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)					

Applications of Earth Observation 04;4E0-TB2:162-m01 Module offered by Institute of Geography and Geology Dotation Module offered by Sample and the second by and the second by and the second by and the second by and Geology Institute of Geography and Geology Duration Module level Other prerequisites Institute of Geography and Geology 1 semister graduate Institute of Geography, environmental planning, ecology, and autor succomplex, second by the means of Earth Observation of the remote sensing technology into practice, e.g. pollution control (monitoring) and antural resource management. Which research questions can be answered by the means of Earth Observation 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 transmeters. The covers the issue of implementation of the emote sensing. The participants will learn how the different disclines of ortweeky contex hours, language – if other than Geman) V (2) Module taught in: English Module taught in: English withen German (assessment will be held in English; in addition, the examination diprox. As minutes) Language of assessment: English of German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German) V (2) Module taught in: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold	Module title				Abbreviation	
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5 numerical grade Duration Module level Other prerequisites 1 semester graduate Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Contents Interdet derning outcomes The lecture gives a b	ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
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Allocation of places Additional information Workload Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) 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) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)	written Langua where p	examin ge of a possibl	nation (approx. 45 minute ssessment: English or Ge e, decide to hold assessi	es) erman (assessment w nent in German)	ill be held in English	n; in addition, the examiner may,
Additional information Additional information Additional information Additional information Additional information Vorkload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) 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) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)	Allocat	ion of p	olaces			
Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) 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) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						
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Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) 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) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						
150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) 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) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)	Worklo	ad				
Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) 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) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)	150 h					
Referred to in LPO I (examination regulations for teaching-degree programmes) 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) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)	Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes) 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) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						
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) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears inMaster's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016)Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)	Module appears in					

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Module	Module title Abbreviation					
Scientific Publishing and Writing in Earth Observation					04-GEO-TB3-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learn	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) Module	e taugh	t in: English				
Methoo module is	d of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
term pa Langua where p	aper (ap ge of a possibl	oprox. 15 pages) ssessment: English or Ge e, decide to hold assess	erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	in and the second se				
Master'	's degre	ee (1 major) Applied Eartl	h Observation and Ge	eoanalysis (EAGLE) (2	2024)	



Metholodological Basics

(15 ECTS credits)

Module title Abbreviation					Abbreviation
Introduction to Spatial Data Analysis Software					04-GEO-MB1-242-m01
Module	coord	inator		Module offered by	
holder	of the F	Professorship of Remote	Sensing	Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
The module comprises the following practical topics: Managing and geoprocessing of raster and vector data in- cluding digitization and analysis/ visualization of geodata / preprocessing of optical remote sensing data (geo- metric and atmospheric corrections, dimension reduction) / different approaches, algorithms, sampling and va- lidation 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 Al-					ing of raster and vector data in- otical remote sensing data (geo- es, algorithms, sampling and va- in the derivation of geophysical Surface Temperature, Surface Al-
Intende	ed learr	ning outcomes			
The sen use of (ninar a Geogra	ims at improving the met phical Information Syster	hodological skills of ns.	the participants in d	igital image processing and the
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (2)		tin English			
Mothod					
module is	creditab	le for bonus)	ge – If other than definall, e		tevery semester, mornation on whether
a) prese b) prep c) term Langua where p credital	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assessi bonus	r total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	irs in			
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

Module title				Abbreviation	
Introdu	Introduction to Programming in Earth Observation 04-GEO-MB2-242-mo1				
Module	e coord	inator		Module offered by	
holder	of the F	Professorship of Remote	Sensing	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
mote S loops a environ	ensing s well a menta	and GIS are provided. Ba as programming syntax u l analysis are covered sur	sing the R language a ch as Random Forest	and geostatistics for n as script structure, are introduced. More or spatial queries.	implementation, functions, eover, statistical basics related to
Introdu	ction to	nrogramming and geos	tatistics for environm	ental data analysis	
Course	s (type, n	umber of weekly contact hours. I	anguage — if other than Ger	man)	
Ü (4) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) preso b) prep c) term Langua where p credital	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assessi bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)				

Module title				Abbreviation	
From Field Measurements to Geoinformation			04-GEO-MB3-162-m01		
Module	coord	inator		Module offered by	
holder	of the F	Professorship of Remote	Sensing	Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
This mo content method student tation, o polation	odule s ts of the ls appr ts. The climate n meth	ets a strong focus on field e course comprises the p opriate for the subseque field data collection can e soil, geology, and others ods are presented.	d methods and data i reparation of field ca nt analysis. A broad s focus on different fie s. Depending of the s	integration for select mpaigns, i.e. the sel sequence of field dev lds of environmenta special focus of cours	ted types of land mapping. The lection of sampling schemes and vices will be introduced to the l mapping, e.g. land use or vege- se, spatial integration and inter-
Intende	ed learr	ning outcomes			
The stu ver map	dents v os and	will gain knowledge in ho geo-/biophysical parame	w to collect field data eters.	a for the purposes of	training and validation land co-
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (2) Module	taugh	t in: English			
Methoo module is	l of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) prese	entatio	n (approx. 30 minutes) o	r b) preparing a poste	er (approx. 10 hours	total) or c) term paper (approx. 15
pages) Langua where p credital	ge of a bossibl ble for	ssessment: English or Ge e, decide to hold assessr bonus	erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in			
Master'	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016)				
Master'	s degre	ee (1 major) Applied Earth	Observation and Ge	eoanalysis (EAGLE) (2	2010) 2021)
Master'	s degre	ee (1 major) Applied Earth	n Observation and Ge	eoanalysis (EAGLE) (2	2024)



Practical Application

(10 ECTS credits)

Module	Module title Abbreviation				
Internship					04-GEO-INT1-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed lear	ning outcomes			
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
P (o)					
Module	e taugh	t in: English			
Methoo module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
report i Langua where p	n form ge of a possibl	of a presentation (appro ssessment: English or Ge e, decide to hold assess	x. 15 minutes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Additio	nal info	ormation on module dura	ation: during semeste	r or as block	
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	in			
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)				

Module	Module title Abbreviation				
Innovation Laboratory				04-GEO-INT2-242-m01	
Module coordinator				Module offered by	1
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learn	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (2)					
Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) preso b) prep c) term	entatio aring a paper	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages)	r s total) or		
Langua	ge of a possibl	e, decide to hold assess	erman (assessment w ment in German)	vill be held in English	h; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Additio	nal info	ormation on module dura	tion: during semeste	r or as block	
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in			
Master's degree (1 major) Applied Earth Observation and Geognalysis (EAGLE) (2024)					



Compulsory Electives

(50 ECTS credits)



Overarching Methods and Applications (OMA)

(10-20 ECTS credits)

Module	Module title Abbreviation				
Spatial	Spatial modelling and prediction 04-GEO-OMA1-242-mo1				
Module coordinator				Module offered by	
				Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learı	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + l	Ü (1)				
Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) prese b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)				

Module title Abbreviation					Abbreviation	
Introdu	iction t	o Active remote sensing	systems		04-GEO-OMA2-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learn	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Methoe module is	d of ass 5 creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Processing and image analysis of active remote sensing sys				stems	04-GEO-OMA3-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learn	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ü	Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) preso b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	e appea	ins in				
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation
Lidar Remote Sensing					04-GEO-OMA4-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learı	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + 0	Ü (1)				
Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) preso b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	e appea	in			
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)

Module title					Abbreviation	
Hyperspectral Earth Observation04-GEO-OMA				04-GEO-OMA5-242-m01		
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learn	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + (Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	e appea	ars in				
Master	's degr	ee (1 major) Applied Eartl	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title Abbreviatio					Abbreviation	
Earth C)bserva	tion Informatics			04-GEO-OMA6-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Metho module is	d of ass s creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where credita	entatio aring a paper ige of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in				
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	eoanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Introdu	iction t	o Spatial Python			04-GEO-OMA7-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + I	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	eoanalysis (EAGLE) (2	2024)	

Module title Abbr					Abbreviation	
Advanc	ed Spa	tial Python			04-GEO-OMA8-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation
Advanced Spatial Programming					04-GEO-OMA9-242-m01
Module	e coord	inator		Module offered by	
			_	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed leari	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + l	Ü (1)				
Module	taugh	t in: English			
Methoo module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) preso b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ıg cycl	e			
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appears in					
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	eoanalysis (EAGLE) (2	2024)

Module title					Abbreviation
Advanc	ed Cod	ing for Earth Observation	n		04-GEO-OMA10-242-m01
Module	e coord	inator		Module offered by	
			_	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learr	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) +	Ü (1)				
Module	e taugh	t in: English			
Method module is	d of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	e appea	rs in			
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)

Module title Abbreviation					Abbreviation	
Earth C)bserva	tion Cloud Computing			04-GEO-OMA11-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	5		
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Methoe module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where credita	entatio aring a paper ige of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	in and the second se				
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module	Module title Abbreviation				
Advanc	Advanced Cloud Computing				04-GEO-OMA12-242-m01
Module	e coord	inator		Module offered by	
	,		_	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learn	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) +	Ü (1)				
Module	e taugh	t in: English			
Method module is	d of ass s creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appears in					
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)

Module title					Abbreviation	
UAS Application in Earth Observation 04-GEO-OMA13-242					04-GEO-OMA13-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ú	Ü (1)					
Module	taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) preso b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in				
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

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Module	e title		Abbreviation						
Theory	and pr	actice of UAS operation a	and methods		04-GEO-OMA14-242-m01				
Module	e coord	inator		Module offered by					
				Institute of Geography and Geology					
ECTS	CTS Method of grading Only af		Only after succ. com	ly after succ. compl. of module(s)					
5	nume	rical 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 is creditable for 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									
Additional information									
Workload									
150 h									
Teaching cycle									
Referred to in LPO I (examination regulations for teaching-degree programmes)									
Module appears in									
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)									

Module	e title		Abbreviation						
UAS ba	sed Ea	rth Observation data ana	llysis		04-GEO-OMA15-242-m01				
Module	e coord	inator		Module offered by					
				Institute of Geography and Geology					
ECTS	S Method of grading On		Only after succ. compl. of module(s)						
5	nume	rical 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 is creditable for 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									
Additional information									
Workload									
150 h									
Teaching cycle									
Referred to in LPO I (examination regulations for teaching-degree programmes)									
Module appears in									
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)									
Module title					Abbreviation				
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Advanced Earth Observation Analysis 04				04-GEO-OMA16-242-m01					
Module	e coord	inator		Module offered by					
			_	Institute of Geograp	bhy and Geology				
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)					
5	nume	rical grade							
Duratio	n	Module level	Other prerequisites						
1 seme	ster								
Conten	ts								
Intende	ed learr	ning outcomes							
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)					
S (1) + Ú	Ü (1)								
Module	taugh	t in: English							
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether				
a) preso b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,				
Allocat	ion of p	olaces							
Additio	nal inf	ormation							
Worklo	ad								
150 h									
Teachir	ng cycl	e							
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)								
Module appears in									
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)				

Module title Abbreviation					Abbreviation	
Innovat	tive Ea	th Observation Applicati	ons		04-GEO-OMA17-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learı	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + (Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) prese b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

Module title				Abbreviation		
Advanced Remote Sensing Applications					04-GEO-OMA18-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module appears in						
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title Abbreviation					Abbreviation	
Novel I	Novel Image Analysis Methods 04-GEO-OMA19-242-mo1					
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + I	Ü (1)					
Module	e taugh	t in: English				
Method	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
		n (approx, ap minutos)	~			
b) prep	aring a	poster (approx. 10 hours	total) or			
c) term	paper	(15 pages)				
Langua	ge of a	ssessment: English or Ge	erman (assessment w	vill be held in English	n; in addition, the examiner may,	
credita	ble for	e, decide to nota assessi bonus	nent in German)			
Allocat	ion of r	places				
	<u></u>					
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

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Module title				Abbreviation		
Spatio-	tempo	ral environmental Metho	ds		04-GEO-OMA20-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learı	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h	150 h					
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Earth O	Earth Observation Research Advances04-GEO-OMA21-242-mo1					
Module	coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ú	Ü (1)					
Module	taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) preso b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Science	e from \	Wall-to-Wall			04-GEO-OMA22-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Methoe module is	d of ass s creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where credita	entatio aring a paper ige of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in						
Master	's degr	ee (1 major) Applied Earth	h Observation and Ge	eoanalysis (EAGLE) (:	2024)	

Module title					Abbreviation	
Informa	ation s	ciences in Remote Sensir	ıg		04-GEO-OMA23-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method	d of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
		n (annray, an minutas)				
b) prep	aring a	poster (approx. 30 minutes) o	total) or			
c) term	paper	(15 pages)				
Langua	ige of a	ssessment: English or Ge	erman (assessment w	ill be held in English	n; in addition, the examiner may,	
credita	ble for	e, decide to nota assessi bonus	nent in German)			
Allocat	ion of r	places				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cvcl	e				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module appears in						
Master	Master's degree (1 major) Artificial Intelligence (2024)					
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

Module title					Abbreviation	
Innova	tive Ear	th Observation Methods			04-GEO-OMA24-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	it every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	irs in				
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation
AI approaches in Earth Observation					04-GEO-OMA25-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed lear	ning outcomes			
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + I Module	Ü (1) e taugh	t in: English			
Metho	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
module is	s creditab	le for bonus)			
b) prep c) term Langua where j credita	aring a paper ge of a possibl ble for	poster (approx. 30 minutes) of poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assessi bonus	s total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in				
Master	's degr	ee (1 major) Artificial Inte	lligence (2024)		
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					



Module Catalogue for the Subject Applied Earth Observation and Geoanalysis (EAGLE) Master's with 1 major, 120 ECTS credits

Environment (ENV) (0-30 ECTS credits)

Module	Module title Abbreviation				
Land S	urface	Dynamics			04-GEO-ENV1-242-m01
Module	e coord	inator		Module offered by	
			_	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intend	ed leari	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) +	Ü (1)				
Module	e taugh	t in: English			
Metho module is	d of ass s creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) pres b) prep c) term Langua where credita	entatio aring a paper ige of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module appears in					
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)				

Module title					Abbreviation	
Earth Observation of drylands and arid regions					04-GEO-ENV2-242-m01	
Module	e coord	inator		Module offered by		
	,		_	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module appears in						
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module	Module title Abbreviation					
Earth O	Earth Observation Terrain Analysis				04-GEO-ENV3-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ü	Ü (1)					
Module	taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) preso b) prep c) term Langua where p credital	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	vill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	e appea	ars in				
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	eoanalysis (EAGLE) (2	2024)	

Module title Abbreviation					Abbreviation	
Earth O	Earth Observation of Cold Regions04-GEO-ENV4-242-mo1					
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learı	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + (Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) prese b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in				
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Earth Observation of Polar Regions04-GEO-ENV5-242-mo1					04-GEO-ENV5-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	hy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learı	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + (Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) prese b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in				
Master	's degr	ee (1 major) Applied Eartł	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title Abbreviation					Abbreviation	
Earth C)bserva	tion of Alpine Regions			04-GEO-ENV6-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	S (type, r	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Methoe module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where credita	entatio aring a paper ige of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h	-					
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in				
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module	Module title Abbreviation				
Earth Observation in Biodiversity Research04-GEO-ENV7-242-mo1					04-GEO-ENV7-242-m01
Module	e coord	inator		Module offered by	
	,		_	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learn	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) +	Ü (1)				
Module	e taugh	t in: English			
Methoe module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) pres b) prep c) term Langua where credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	e appea	ars in			
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)

Module title					Abbreviation
Multi-Scale Earth Observation					04-GEO-ENV8-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed leari	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) +	Ü (1)				
Module	e taugh	t in: English			
Metho module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appears in					
Master	's degr	ee (1 major) Applied Eartl	n Observation and Ge	oanalysis (EAGLE) (2	2024)

Module title					Abbreviation	
Earth O	bserva	tion in Biology			04-GEO-ENV9-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master	's degr	ee (1 major) Applied Eartl	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title				Abbreviation		
Earth O	bserva	tion Time-Series Analysi	S		04-GEO-ENV10-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learı	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + l	Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) prese b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in				
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module	Module title Abbreviation					
Advanc	Advanced Applications in Earth Observation04-GEO-ENV11-242-m01					
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learn	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where µ credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module appears in						
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Earth O	Earth Observation in Geography				04-GEO-ENV12-242-m01	
Module	e coord	inator		Module offered by		
	_			Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + (Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) preso b) prep c) term Langua where p credita	entatio aring a paper ge of a cossibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Remote	e Sensi	ng in Ecology			04-GEO-ENV13-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learı	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + (Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) prese b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module appears in						
Master	's degr	ee (1 major) Applied Eartl	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title				Abbreviation		
Environmental Field Work Approaches 04-GEO-ENV14-242-mo1					04-GEO-ENV14-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + (Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) preso b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title				Abbreviation		
Multi-T	empor	al Earth Observation			04-GEO-ENV15-242-m01	
Module	e coord	inator		Module offered by		
	,		_	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learı	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	irs in				
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Earth C	Earth Observation and Animal Movement Analysis				04-GEO-ENV16-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Methoe module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where p credita	entatio aring a paper ge of a possibl ble for	n (approx. 30 minutes) o poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assess bonus	r 5 total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	in in				
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Earth C	Earth Observation in Conservation				04-GEO-ENV17-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites	ther prerequisites		
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Methoe module is	d of ass s creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
 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) 						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
Master	's degr	ee (1 major) Applied Earth	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Applied	d Earth	Observation for Ecology			04-GEO-ENV18-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS Method of grading Only after succ. compl. of module(s)						
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learn	ning outcomes				
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
 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 						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
Master	's degr	ee (1 major) Applied Eartł	n Observation and Ge	oanalysis (EAGLE) (2	2024)	

Module title					Abbreviation	
Earth O	bserva	tion of Georisks			04-GEO-ENV19-242-m01	
Module	coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	5		
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ü	Ü (1)					
Module	taugh	t in: English				
Method	l of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is		n (approx ac minutos)	~			
b) prep	aring a	poster (approx. 30 minutes) o	total) or			
c) term	paper	(15 pages)				
Langua	ge of a	ssessment: English or Ge	erman (assessment w	vill be held in English	n; in addition, the examiner may,	
credita	ble for	e, decide to note assessi bonus	nent in German)			
Allocat	ion of r	laces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
		-				
Module	e appea	rs in				
Master	's degre	ee (1 major) Applied Earth	n Observation and Ge	eoanalysis (EAGLE) (2	2024)	

Module	e title				Abbreviation	
Environ	imenta	l Applications of Radar ti	me-series		04-GEO-ENV20-242-m01	
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learı	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + l	Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	eessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
 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) 						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					



Module Catalogue for the Subject Applied Earth Observation and Geoanalysis (EAGLE) Master's with 1 major, 120 ECTS credits

Urban (URB) (0-30 ECTS credits)

Module title					Abbreviation
Global to local Earth Observation of Urbanization					04-GEO-URB1-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts		-		
Intende	ed leari	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (2)					
Module	e taugh	t in: English			
Method module is	1 of ass creditab	;essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r 5 total) or utes) erman (assessment w ment in German)	vill be held in English	ı; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	in			
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

Module title Abbreviation					Abbreviation	
Urban I	Urban Remote Sensing				04-GEO-URB2-242-m01	
Module	e coord	inator		Module offered by	·	
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5 numerical grade						
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ü	Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r 5 total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	in and the second se				
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						

Module title				Abbreviation		
Urban (Classifi	cation Approaches			04-GEO-URB3-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	ECTS Method of grading Only after succ. compl. of module(s)					
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + 1	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	in and the second se				
Master	Master's degree (1 major) Applied Farth Observation and Geographysis (FAGLE) (2024)					

Module title				Abbreviation		
From U	rban Fi	eldwork to Analysis			04-GEO-URB4-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ü	Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	appea	ars in				
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					
Module title				Abbreviation		
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Global	Urbani	zation			04-GEO-URB5-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learn	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) +	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) writt Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r 5 total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master	Master's degree (1 major) Applied Farth Observation and Geognalysis (FAGLE) (2024)					

Module title				Abbreviation	
Geo-co	mputat	ion in Urban Analysis			04-GEO-URB6-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learn	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + 0	Ü (1)				
Module	e taugh	t in: English			
Methoo module is	d of ass s creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	it every semester, information on whether
a) pres b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	e appea	ars in			
Master	Master's degree (1 major) Applied Earth Observation and Geographysis (EAGLE) (2027)				

Module title				Abbreviation			
Urban Geography				04-GEO-URB7-242-m01			
Module	e coord	inator		Module offered by			
				Institute of Geograp	ohy and Geology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster						
Conten	ts						
Intende	ed learn	ning outcomes					
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)			
S (1) +	Ü (1)						
Module	e taugh	t in: English					
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether		
a) pres b) prep c) writt Langua where p	entatio aring a en exar ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r 5 total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,		
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)			
Module	e appea	ars in					
Master	's degr	ee (1 maior) Applied Eart	Master's degree (1 major) Applied Earth Observation and Geographysis (EAGLE) (2024)				

Module	Module title Abbreviation					
Geo-Linguistics within Earth Observation 04-GEO-URB8-242-mo1				04-GEO-URB8-242-m01		
Module	coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ü Module	Ü (1) taugh	t in: English				
Method	l of ass	essment (type, scope, langua	ge — if other than German.	examination offered — if no	ot every semester, information on whether	
module is	creditab	le for bonus)			, , , , , , , , , , , , , , , , , , , ,	
a) prese b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	appea	ars in				
Master'	Master's degree (1 major) Applied Farth Observation and Geographysis (FAGLE) (2024)					

Module title Abbreviation				Abbreviation	
Urban I	Field Da	ata Acquisition			04-GEO-URB9-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed leari	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + 0	Ü (1)				
Module	e taugh	t in: English			
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) pres b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r 5 total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
Module	e appea	irs in			
Master	's degr	ee (1 major) Applied Eartl	h Observation and Ge	oanalysis (EAGLE) (2	2024)

Module title Abbreviation					Abbreviation	
Historical Urban Analysis 04-GEO-URB10-242-mo1					04-GEO-URB10-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + l	Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) writte Langua where p	entatio aring a en exar ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	e appea	ars in				
Master	Master's degree (1 major) Applied Earth Observation and Geognalysis (EAGLE) (2024)					

Module title				Abbreviation	
Applied Programming for Urban Analytics					04-GEO-URB11-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learı	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + Ü	Ü (1)				
Module	e taugh	t in: English			
Method module is	d of ass s creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	Module appears in				
Master	Master's degree (1 major) Applied Earth Observation and Geognalysis (EAGLE) (2024)				

Module title				Abbreviation		
Remote Sensing of Urban Areas 04-GEO-URB12-242				04-GEO-URB12-242-m01		
Module	e coord	inator		Module offered by		
			_	Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ü	Ü (1)					
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	appea	ars in				
Master	's degr	Master's degree (1 major) Applied Farth Observation and Geographysis (FAGLE) (2024)				

Module title					Abbreviation
Risk and Disaster Earth Observation					04-GEO-URB13-242-m01
Module	e coord	inator		Module offered by	
		·		Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learn	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + Ü	Ü (1)				
Module	e taugh	t in: English			
module is	1 of ass s creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teachir	ng cycl	9			
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	Module appears in				
Master	Master's degree (1 major) Applied Farth Observation and Geographysis (FAGLE) (2024)				

Module title				Abbreviation	
OpenSource coding in Urban Earth Observation					04-GEO-URB14-242-m01
Module	e coord	inator		Module offered by	
			_	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed leari	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + Ü	Ü(1)				
Module	e taugh	t in: English			
Method module is	i of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in			
Master	Master's degree (1 major) Applied Farth Observation and Geographysis (FAGLE) (2024)				

Module title				Abbreviation	
Earth Observation of urban morphology					04-GEO-URB15-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed leari	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + Ü	Ü (1)	t in. English			
Mother					
module is	creditab	le for bonus)	ge — If other than German, (examination offered — if no	ot every semester, information on whether
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	e appea	ars in			
Master	's degr	ee (1 maior) Applied Eartl	h Observation and Ge	eoanalysis (EAGLE) (:	2024)

Module title				Abbreviation	
Urban remote sensing and socio-economy					04-GEO-URB16-242-m01
Module	coord	inator		Module offered by	
	,			Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learr	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (1) + Ü	Ü (1)				
Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module	e appea	in			
Master	Master's degree (1 major) Applied Farth Observation and Geographysis (FAGLE) (2024)				

Module	Module title Abbreviation					
Urban-human interaction analysis					04-GEO-URB17-242-m01	
Module	e coord	inator		Module offered by		
		·		Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (1) + Ü	Ü (1)					
Module	e taugh	t in: English				
Method module is	d of ass s creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
a) preso b) prep c) writte Langua where p	entatio aring a en exar ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours nination (approx. 45 min ssessment: English or Ge e, decide to hold assess	r s total) or utes) erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master	Master's degree (1 major) Applied Farth Observation and Geographysis (FAGLF) (2024)					



Module Catalogue for the Subject Applied Earth Observation and Geoanalysis (EAGLE) Master's with 1 major, 120 ECTS credits

Soft Skills (SOS) (5-15 ECTS credits)

Module title A					Abbreviation	
Scientific Presentation					04-GEO-SOS1-242-m01	
Module	coord	inator		Module offered by		
holder	of the F	Professorship of Remote S	Sensing	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Existing appear be part	g prese ance of of it as	ntations will be discusse f presentations will be dis well. Alternative present	d and evaluated with scussed and guidelin tation methods will b	regard to visual app es provided. Individ e introduced (e.g kn	bearance. Moreover design and ual training of presentations will itr, beamer).	
Intende	ed learn	and articles will be discu		to opiontific content		
present	tations tations	and articles will be discu	issed with regard to i	ts scientific content	and goal to ensure high quality	
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	taugh	t in: English				
Method module is	l of ass creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) prese b) prep c) term Langua where p	entatio aring a paper ge of a oossibl	n (approx. 30 minutes) of poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assess	r total) or erman (assessment w ment in German)	ill be held in English	ı; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
Module appears in						
Master'	s degr	ee (1 major) Applied Earth	n Observation and Ge	eoanalysis (EAGLE) (2	2024)	

Module title					Abbreviation
Advanced Skills on the Master's Level					04-GEO-SOS2-242-m01
Module	e coord	inator		Module offered by	
holder	of the I	Professorship of Remote	Sensing	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Moreov covered	/er scie d. More	ntific articles will be disc over, general writing guid	ussed and own articl delines, journal guide	es be written. The st elines etc. will be int	ructure as well as wording will be roduced.
Intend	ed lear	ning outcomes			
Presen ⁻ presen	tations tations	and articles will be discu as well as articles.	issed with regard to i	ts scientific content	and goal to ensure high quality
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Metho module is	d of ass s creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether
a) pres b) prep c) term Langua where	entatio aring a paper ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assessi	r ; total) or erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

Module title Abbreviation					Abbreviation	
Research Project Management 04-					04-GEO-SOS4-242-m01	
Module	coord	inator		Module offered by		
holder	of the F	Professorship of Remote	Sensing	Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
The cou funds a team st	irse of re show ructure	research projects is discu wn. Typical research proje es in typical research proj	ussed. The possibiliti ect structures and co ects are practiced.	es and standard pro ntents are introduce	cesses for acquiring third-party d and discussed. Teamwork and	
Intende	ed leari	ning outcomes			· · · · · · · · · · · · · · · · · · ·	
The aim The stu	dents a	provide students with bas are then able to plan and	organize their own p	uiring, processing an rojects.	id completing research projects.	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	taugh	t in: English				
Methoo module is	l of ass creditab	s essment (type, scope, langua ₎ le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) preso b) prep c) term Langua where p	entatio aring a paper ge of a possibl	n (approx. 30 minutes) of poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assessi	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						

Module title					Abbreviation	
Scientific Maps					04-GEO-SOS6-242-m01	
Module	e coord	inator		Module offered by		
holder	of the I	Professorship of Remote	Sensing	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
Existing rance c well. Re	g maps of maps elevant	will be discussed and ev will be discussed and gu programs will be introdu	valuated with regard t uidelines provided. Ir iced.	o visual appearance adividual training of	e. Moreover design and appea- map creation will be part of it as	
Intende	ed lear	ning outcomes				
Maps v	vill be c	liscussed with regard to i	ts scientific content a	and goal to ensure h	igh quality spatial information.	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module	e taugh	t in: English				
Metho module is	d of ass s creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where	entatio aring a paper ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assess	r s total) or erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in						
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						

Module title					Abbreviation
Scientific Graphs					04-GEO-SOS7-242-m01
Module	e coord	inator		Module offered by	
holder	of the F	Professorship of Remote	Sensing	Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
Existing and me part of	g graph essage it as we	s and figures will be disc of graphs will be discuss ell. Relevant software me	ussed and evaluated ed and guidelines pro thods will be introduc	with regard to visua ovided. Individual tra ced (e.g ggplot, shin	al appearance. Moreover content aining of graph creation will be y).
Intende	ed learı	ning outcomes			
Figures	and gr	aphs will be discussed w	ith regard to its scier	ntific content and go	al to ensure high quality graphs.
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) pres b) prep c) term Langua where p	entatio aring a paper ge of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assess	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module	Module appears in				
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

Module title					Abbreviation	
Innova	tive Re	search Softskills			04-GEO-SOS9-242-m01	
Module	e coord	inator		Module offered by		
holder	of the I	Professorship of Remote	Sensing	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	Its					
Challer the dis	nges an cussed	d potential of novel scier within the group and op	ntific approaches will timal workflows provi	be introduced and o	discussed. The various steps will	
Intend	ed lear	ning outcomes				
Knowle	edge of	identifying and approach	ning challenges and p	otential within nove	l research approaches.	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
S (2)						
Module	e taugh	t in: English				
Metho	d of ass	sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
module is	s creditab	le for bonus)				
a) pres b) prep	entatio aring a	n (approx. 30 minutes) o poster (approx. 10 hours	r s total) or			
c) term	paper	(approx. 15 pages)				
Langua	age of a	ssessment: English or Ge	erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Alleget			inent in German)			
Allocat	ion of p	Diaces				
Additio	onat ini	ormation				
Workla						
Referre	KETEFIED TO IN LEVEL (examination regulations for teaching-degree programmes)					
Magtar	e appea	us maior) Applied Farth	o Observation and Ca	papalusis (EACLE) (202 ()	
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						

Module title					Abbreviation	
Applied Remote Sensing outside academia					04-GEO-SOS11-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	S (type, r	umber of weekly contact hours, I	anguage — if other than Ger	man)		
S (2)						
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where p	entatio aring a paper ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assess	r s total) or erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

Module title Abbreviation					Abbreviation	
Science Communication				04-GEO-SOS12-242-m01		
Module	e coord	inator		Module offered by		
				Institute of Geogra	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed learn	ning outcomes				
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2)						
Module	e taugh	t in: English				
Methoo module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
a) pres b) prep c) term Langua where p	entatio aring a paper ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assess	r 5 total) or erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	Module appears in					
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						

Module title /					Abbreviation	
Science Visualization					04-GEO-SOS13-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed leari	ning outcomes				
Course	S (type, n	umber of weekly contact hours, I	anguage — if other than Ger	man)		
S (2)						
Module	e taugh	t in: English				
Method module is	d of ass creditab	s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
a) pres b) prep c) term Langua where p	entatio aring a paper ge of a cossibl	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assess	r 5 total) or erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	in				
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)						

Module title Abbreviation					Abbreviation
Advanc	ed Sci	entific Softskills			04-GEO-SOS14-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed lear	ning outcomes			
Course	S (type, r	number of weekly contact hours, I	anguage — if other than Ger	man)	
S (2)					
Module	e taugh	t in: English			
Metho module is	d of ass s creditab	sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
a) pres b) prep c) term Langua where	entatio oaring a paper age of a possibl	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assess	r s total) or erman (assessment w ment in German)	ill be held in English	n; in addition, the examiner may,
Allocat	ion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)				



Thesis (30 ECTS credits)

Master-Thesis EAGLE 04/-6EO-MA1-162-m01 Module crite Vrofessorship of Remote Sensing Institute of Geography and Geology Instruct of Geography and Geology Comparing and the professorship of Remote Sensing Institute of Geography and Geology 28 numerial gradu 29 Graduate Contents	Module title					Abbreviation		
Module Module offered by holde For search processorship of Remote Serving Institute of Geography and Geology ECTS Method of grading Only after succ. comp. of module(s) 28 numerical grade 1 semation Module fevel Other prerequisites 1 semation Module in the New Mithin the Most thesis that he/she is capable of working scientifically without major supervision. Defining the aim, the hypothesis and structuring a research topic is the main first content followed by the actual analysis of spatial data (Earth Observation mainly satellite remote sensing but also airborne data or auxiliary data). Defining the methods and describing these including the results and discuss the outcome critically. Moreover: an appropriate visual presentation (typesetting and graphics, as well as maps) and writing is expected. The Msc thesis is graded on the difficulty of the topic, on the amount of needed supervision (independent two is superiors). The writing and especially the discussion of the Msc thesis. The thesis structure can comply to a standard scientific article but should exceed 50 pages. Interded Contracting and independent research topic writing in earment weeting within the Greman. No course set set set subtro of assessment (type, scope, language – if other than Greman). Course is the sis (approx. Go pages). Language is assessment: English Matter's thesis (approx. Go pages). Standard Scientific article but should exceed 50 pages). Language is assessm	Master	Thesis	EAGLE			04-GEO-MA1-162-m01		
holder orthy Institute of Geography and Geology ECTS Method Farding Only after succ. compl. of module(s) 28 numerial grade Duration Module level Other prerequisites Isemester graduate Concent Concent Concent Concent Concent Concent Concent Concent	Module	coord	inator		Module offered by			
ECTS Method s grading Only after succ. compl. of module(s) 28 numerical grade - Duration Module level Other prerequisites 1 semester graduate The student show within the Msc thesis that he/she is capable of working scientifically without major supervision. Defining the aim, the hypothesis and structuring a research topic is the main first content followed by the datual analysis of spatial data (Earth Observation mainly satellite remote sensing but also airborne data or auxiliary data). Defining the methods and describing these including the results and discuss the outcome artitically. Moreover an appropriate visual presentation (typesetting and graphics, as well as maps) and writing is expected. The Msc thesis is graded on the difficulty of the topic, on the amount of needed supervision (independent work is expected as well as regular meetings with the supervisors), the writing and especially the discussion on the Msc thesis. The thesis structure comply to a standard scientific article but should exceed 50 pages. Interded Eartheorder	holder	of the F	Professorship of Remote	Sensing	Institute of Geograp	bhy and Geology		
28 numerical grade Duration Module level Other prerequisites 1 semest graduate Contents Catal analysis of spatial data (Earth Observation mainly satellite remote sensing but also airborn data or auxillary data). Defining the methods and describing these including the results and discuss the outcome critically. Moreover an appropriate visual presentation (typesetting and graphics, as well as maps) and writing is expected. The Msc thesis is graded on the difficulty of the topic, on the amount of needed supervision (independent work is expected as well as regular meetings with the supervisors), the writing and especially the discussion of the Msc thesis. The thesis structure can comply to a standard scientific article but should exceed 50 pages. Intender learning outcomes Courses (type, number of weekly contact hours, language – if other than German) No courses assigned to module Courses (type, number of weekly contact hours, language – if other than German, examination offered – if not every semester, information on whether module is creditable for hours] Master's thesis (approx. 60 pages) Language – if other than German, examination offered – if not every semester, information on whether Master's thesis (approx. 60 pages) Language – if other than German, examination offered – if not every semester, information on whether Master's thesis (approx. 60 pages) Language – if other than German, examination offered – if not every semester, informatio	ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
Duration Module level Other prerequisites 1 semester graduate Conterts The student should show within the Msc thesis that he/she is capable of working scientifically without major supervision. Defining the aim, the hypothesis and structuring a research topic is the main first content followed by the actual analysis of spatial data (Earth Observation mainly satellite remote sensing but also airborne data or auxiliary data). Defining the methods and describing these including the results and discuss the outcome critically. Moreover an appropriate visual presentation (typesetting and graphics, as well as maps) and writing is expected. The Msc thesis is graded on the difficulty of the topic, on the amount of needed supervision (independent work is expected as well as regular meetings with the supervisors), the writing and sepcially the discussion of the Msc thesis. The thesis structure can comply to a standard scientific article but should exceed 50 pages. Intended learing outcomes Conducting an independent research topic within 6 months Courses (type, number of weekly contact hours, language – if other than Geman) No courses assigned to module Method of assessment (type, scope, language – if other than Geman, examination offered – if not every senseter, information on whether module is creditable for bonus) Master's thesis (approx. 60 pages) Language of assessment: English Additional information	28	nume	rical grade					
n semester graduate	Duratio	n	Module level	Other prerequisites				
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	Master'	s degre	ee (1 major) Applied Earth	1 Observation and Ge	eoanalysis (EAGLE) (2	2021) 2024)		

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Module title					Abbreviation	
Final Colloquium on Master Thesis					04-GEO-MA2-162-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)				
2	numerical grade					
Duration		Module level	Other prerequisites			
		graduate				
Contents						
The final colloquium aims to present the aim and results of the Msc thesis to a scientific audience (EAGLE lectur- er and students) who are all allowed to ask questions and discuss the outcome critically. The presentation ought to follow scientific standards and should take 20mins. The presentation is not graded but is needed to finish the Msc.						
Intended learning outcomes						
Presentation of the final Msc thesis						
Courses (type, number of weekly contact hours, language — if other than German)						
K (o) 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)						
talk (approx. 30 minutes) with subsequent discussion (approx. 15 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						
Additional information						
Workload						
60 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
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)						
Master'	Master's degree (1 major) Applied Earth Observation and Geographics (EAGLE) (2021) Master's degree (1 major) Applied Earth Observation and Geographics (FAGLE) (2027)					