

Subdivided Module Catalogue for the Subject

Keine PO-STG-Zuordnung vorhanden

Responsible: JMU Würzburg

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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



- 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

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

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:

ASP02015

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.



The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page				
Compulsory Courses (40 E	CTS credits)	•		•				
Theoretical Basics (15 ECTS credits)								
04-GEO-TB1-162-m01	Introduction to Remote Sensing and Geoanalysis	5	NUM	70				
04-GEO-TB2-162-m01	Applications of Earth Observation	5	NUM	71				
04-GEO-TB3-242-m01	Scientific Publishing and Writing in Earth Observation	5	B/NB	72				
Metholodological Basics	(15 ECTS credits)	•						
04-GEO-MB1-242-m01	Introduction to Spatial Data Analysis Software	5	NUM	32				
04-GEO-MB2-242-m01	Introduction to Programming in Earth Observation	5	NUM	33				
04-GEO-MB3-162-m01	From Field Measurements to Geoinformation	5	NUM	34				
Practical Application (10	ECTS credits)	1						
	Internship	5	B/NB	28				
	Innovation Laboratory	5	NUM	29				
Compulsory Electives (50 E	<u>.</u>	1 -						
	d Applications (OMA) (10-20 ECTS credits)							
	Spatial modelling and prediction	5	NUM	38				
<u> </u>	Introduction to Active remote sensing systems	5	NUM	49				
	Processing and image analysis of active remote sensing sy-	 		42				
04-GEO-OMA3-242-m01	stems	5	NUM	53				
04-GEO-OMA4-242-m01	Lidar Remote Sensing	5	NUM	54				
04-GEO-OMA5-242-m01	Hyperspectral Earth Observation	5	NUM	55				
04-GEO-OMA6-242-m01	Earth Observation Informatics	5	NUM	56				
04-GEO-OMA7-242-m01	Introduction to Spatial Python	5	NUM	57				
04-GEO-OMA8-242-m01	Advanced Spatial Python	5	NUM	58				
04-GEO-OMA9-242-m01	Advanced Spatial Programming	5	NUM	59				
04-GEO-OMA10-242- m01	Advanced Coding for Earth Observation	5	NUM	35				
04-GEO-OMA11-242- m01	Earth Observation Cloud Computing	5	NUM	36				
04-GEO-OMA12-242- m01	Advanced Cloud Computing	5	NUM	37				
04-GEO-OMA13-242- m01	UAS Application in Earth Observation	5	NUM	39				
04-GEO-OMA14-242- m01	Theory and practice of UAS operation and methods	5	NUM	40				
04-GEO-OMA15-242- m01	UAS based Earth Observation data analysis	5	NUM	41				
04-GEO-OMA16-242- mo1	Advanced Earth Observation Analysis	5	NUM	42				
04-GEO-OMA17-242- mo1	Innovative Earth Observation Applications	5	NUM	43				
04-GFO-OMA18-242-	Advanced Remote Sensing Applications	5	NUM	44				



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04-GEO-OMA19-242- m01	Novel Image Analysis Methods	5	NUM	45
04-GEO-OMA20-242- m01	Spatio-temporal environmental Methods	5	NUM	46
04-GEO-OMA21-242- mo1	Earth Observation Research Advances	5	NUM	47
04-GEO-OMA22-242- mo1	Science from Wall-to-Wall	5	NUM	48
04-GEO-OMA23-242- mo1	Information sciences in Remote Sensing	5	NUM	50
04-GEO-OMA24-242- m01	Innovative Earth Observation Methods	5	NUM	51
04-GEO-OMA25-242- m01	Al approaches in Earth Observation	5	NUM	52
Environment (ENV)				
04-GEO-ENV1-242-m01	Land Surface Dynamics	5	NUM	11
04-GEO-ENV2-242-m01	Earth Observation of drylands and arid regions	5	NUM	20
04-GEO-ENV3-242-m01	Earth Observation Terrain Analysis	5	NUM	21
04-GEO-ENV4-242-m01	Earth Observation of Cold Regions	5	NUM	22
04-GEO-ENV5-242-m01	Earth Observation of Polar Regions	5	NUM	23
04-GEO-ENV6-242-m01	Earth Observation of Alpine Regions	5	NUM	24
04-GEO-ENV7-242-m01	Earth Observation in Biodiversity Research	5	NUM	25
04-GEO-ENV8-242-m01	Multi-Scale Earth Observation	5	NUM	26
04-GEO-ENV9-242-m01	Earth Observation in Biology	5	NUM	27
04-GEO-ENV10-242-m01	Earth Observation Time-Series Analysis	5	NUM	8
04-GEO-ENV11-242-m01	Advanced Applications in Earth Observation	5	NUM	9
04-GEO-ENV12-242-m01	Earth Observation in Geography	5	NUM	10
04-GEO-ENV13-242-m01	Remote Sensing in Ecology	5	NUM	12
04-GEO-ENV14-242-m01	Environmental Field Work Approaches	5	NUM	13
04-GEO-ENV15-242-m01	Multi-Temporal Earth Observation	5	NUM	14
04-GEO-ENV16-242-m01	Earth Observation and Animal Movement Analysis	5	NUM	15
	Earth Observation in Conservation	5	NUM	16
04-GEO-ENV18-242-m01	Applied Earth Observation for Ecology	5	NUM	17
04-GEO-ENV19-242-m01	Earth Observation of Georisks	5	NUM	18
04-GEO-ENV20-242-	Environmental Applications of Radar time-series	5	NUM	19
mo1	, , , , , , , , , , , , , , , , , , ,			
Urban (URB)		T	T	r
04-GEO-URB1-242-m01	Global to local Earth Observation of Urbanization	5	NUM	76
04-GEO-URB2-242-m01	<u> </u>	5	NUM	82
	Urban Classification Approaches	5	NUM	83
	· · · · · · · · · · · · · · · · · · ·	5	NUM	84
, ,		5	NUM	85
	· · · · · · · · · · · · · · · · · · ·	5	NUM	86
04-GEO-URB7-242-m01		5	NUM	87
	Geo-Linguistics within Earth Observation	5	NUM	88
04-GEO-URB9-242-m01	Urban Field Data Acquisition	5	NUM	89



04-GEO-URB10-242-m01	Historical Urban Analysis	5	NUM	73
04-GEO-URB11-242-m01	Applied Programming for Urban Analytics	5	NUM	74
04-GEO-URB12-242-m01	Remote Sensing of Urban Areas	5	NUM	75
04-GEO-URB13-242-m01	Risk and Disaster Earth Observation	5	NUM	77
04-GEO-URB14-242-m01	OpenSource coding in Urban Earth Observation	5	NUM	78
04-GEO-URB15-242-m01	Earth Observation of urban morphology	5	NUM	79
04-GEO-URB16-242-m01	Urban remote sensing and socio-economy	5	NUM	80
04-GEO-URB17-242-m01	Urban-human interaction analysis	5	NUM	81
Soft Skills (SOS) (5-15 EC	TS credits)			
04-GEO-SOS1-242-m01	Scientific Presentation	5	NUM	62
04-GEO-SOS2-242-m01	Advanced Skills on the Master's Level	5	B/NB	65
04-GEO-SOS4-242-m01	Research Project Management	5	NUM	66
04-GEO-SOS6-242-m01	Scientific Maps	5	NUM	67
04-GEO-SOS7-242-m01	Scientific Graphs	5	NUM	68
04-GEO-SOS9-242-m01	Innovative Research Softskills	5	B/NB	69
04-GEO-SOS11-242-m01	Applied Remote Sensing outside academia	5	B/NB	60
04-GEO-SOS12-242-m01	Science Communication	5	B/NB	61
04-GEO-SOS13-242-m01	Science Visualization	5	B/NB	63
04-GEO-SOS14-242-m01	Advanced Scientific Softskills	5	B/NB	64
Thesis (30 ECTS credits)				
04-GEO-MA1-162-m01	Master-Thesis EAGLE	28	NUM	30
04-GEO-MA2-162-m01	Final Colloquium on Master Thesis	2	NUM	31



Modul	e title				Abbreviation	
Earth Observation Time-Series Analysis 04-GEO-ENV _{10-242-mo1}					04-GEO-ENV10-242-m01	
Module coordinator				Module offered by		
				Institute of Geograp	ahy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		rical grade		ipti oi inodute(s)		
Duratio		Module level	Other prerequisites			
1 seme	-					
Conten	nts					
		,				
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ict hours, language —	- if other than Germa	nn)	
S (1) +		, namber of weekly conte	- tanguage	ii otiici tiidii ociiiie	,	
		nt in: English				
Metho	d of as	sessment (type, scope, la	inguage — if other tha	an German, examina	ation offered — if not every seme-	
ster, in	format	ion on whether module c	an be chosen to earn	a bonus)	·	
		on (approx. 30 minutes) o				
	_	a poster (approx. 10 hours	s total) or			
		(15 pages) Assessment: English or Go	erman (assessment w	vill he held in English	n; in addition, the examiner may,	
		le, decide to hold assess		and be freta in English	i, in addition, the examiner may,	
credita	ble for	bonus				
Allocat	tion of	places				
Additio	onal inf	ormation				
			•			
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
	Communication regulations for teaching degree programmes)					
Module	Module appears in					
	keinem Studiengang zugeordnet					



Modul	e title				Abbreviation	
Advanced Applications in Earth Observation					04-GEO-ENV11-242-m01	
Modul	e coorc	linator		Module offered by		
Modul	e coore	illiatoi		Institute of Geograp	ahy and Goology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		erical grade		ipt. or inodute(3)		
Duration		Module level	Other prerequisites			
1 seme						
Conter	nts	I.	l			
Intend	ed lear	ning outcomes				
	cu icui	ming outcomes				
Course	e (tuno	e, number of weekly conta	act hours language	if other than Carra	nn)	
S (1) +		, number of weekly cont	act nours, language –	- II other than Germa	111)	
` '	` '	nt in: English				
		-	anguage — if other th	an German examina	ation offered — if not every seme-	
		ion on whether module o			and the sterior in the sterior server.	
		on (approx. 30 minutes) o				
		a poster (approx. 10 hour (15 pages)	S total) of			
			erman (assessment v	vill be held in English	n; in addition, the examiner may,	
		le, decide to hold assess	ment in German)			
credita			_			
Allocat	tion of	places				
Additio	nal inf	formation	_			
Worklo	oad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appe	ars in				
	keinem Studiengang zugeordnet					



Module title				Abbreviation		
Earth Observation in Geography			04-GEO-ENV12-242-m01			
Module coordinator				Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. com	ıpl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conter	ıts		,			
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	ın)	
S (1) +		,				
		t in: English				
Metho	d of ass	sessment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
ster, in	format	ion on whether module ca	an be chosen to earn	a bonus)	·	
b) prep c) term Langua where	oaring a paper age of a	le, decide to hold assessi	s total) or erman (assessment w	ill be held in English	n; in addition, the examiner may,	
Allocat	tion of p	olaces				
	_,					
Additio	onal inf	ormation				
Worklo	Workload					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modul	e appea	ars in				
	keinem Studiengang zugeordnet					



Module title Abbreviation					Abbreviation	
Land Surface Dynamics					04-GEO-ENV1-242-m01	
Module coordinator				Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS		od of grading	Only after succ. com	ıpl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester					
Conter	nts					
Intend	ed learı	ning outcomes				
Course	es (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)	
S (1) + Module		t in: English				
ster, in	ıformati	sessment (type, scope, la on on whether module con n (approx. 30 minutes) o	an be chosen to earn		tion offered — if not every seme-	
b) prep c) term Langua where	oaring a paper age of a	poster (approx. 10 hours (15 pages) ssessment: English or Ge e, decide to hold assessi	s total) or erman (assessment w	ill be held in English	n; in addition, the examiner may,	
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	oad					
150 h	150 h					
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
	·-					
Module	e appea	nrs in				
		engang zugeordnet				



Module title Abbre					Abbreviation	
Remote Sensing in Ecology				04-GEO-ENV13-242-m01		
Module coordinator				Module offered by		
				Institute of Geograp	hhy and Geology	
ECTS	Meth	od of grading	Only after succ. com		ony and deology	
5		rical grade		.,		
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ıts					
Intende	ed lear	ning outcomes				
		-				
Course	.s (type	number of weekly conta	ct hours, language —	· if other than Germa	n)	
S (1) +		, 5 , conta			··· y	
` '		t in: English				
Metho	d of as	sessment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
ster, in	format	ion on whether module ca	an be chosen to earn	a bonus)		
b) prep c) term Langua	paring a paper age of a possib	le, decide to hold assessı	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of	places				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modula	 Module appears in					
	keinem Studiengang zugeordnet					



Modul	e title				Abbreviation	
Environmental Field Work Approaches					04-GEO-ENV14-242-m01	
Modul	e coord	linator		Module offered by		
				Institute of Geograp	nhy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		erical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester					
Conter	nts					
	1					
Intend	ed lear	ning outcomes				
Course	es (type	e, number of weekly cont	act hours, language –	- if other than Germa	nn)	
S (1) +		, named of weekly come	- tanguage	n other than cerme	,	
		nt in: English				
Metho	d of as	sessment (type, scope, l	anguage — if other th	an German, examina	ation offered — if not every seme-	
ster, in	format	ion on whether module	can be chosen to earn	a bonus)		
		on (approx. 30 minutes)				
		a poster (approx. 10 hou	rs total) or			
		(15 pages) assessment: English or G	erman (assessment v	vill he held in English	n; in addition, the examiner may,	
		le, decide to hold assess		viii be neta in Englisi	i, in addition, the examiner may,	
credita						
Allocat	tion of	places				
Additio	onal inf	ormation				
Worklo	Workload					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modul	e appe	ars in				
	keinem Studiengang zugeordnet					



Module title					Abbreviation	
Multi-Temporal Earth Observation				04-GEO-ENV15-242-m01		
Module	e coord	inator		Module offered by		
				Institute of Geograp	hhy and Geology	
ECTS	Meth	od of grading	Only after succ. com	<u> </u>	ony and deology	
5		rical grade		.,		
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ıts					
Intende	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)	
S (1) +		, namber of weekly conta	- triburs, tanguage	n other than defina	,	
` '		t in: English				
Method	d of as	sessment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
ster, in	format	ion on whether module ca	an be chosen to earn	a bonus)	·	
b) prep c) term Langua	oaring a paper age of a possib	le, decide to hold assessı	s total) or erman (assessment w	vill be held in English	ı; in addition, the examiner may,	
Allocat	ion of	places				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modula	 Module appears in					
	keinem Studiengang zugeordnet					



Module	e title				Abbreviation	
Earth Observation and Animal Movement Analysis					04-GEO-ENV16-242-m01	
Module	Module coordinator			Module offered by		
				Institute of Geograp	hy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		rical grade		,		
Duratio	on	Module level	Other prerequisites			
1 seme	ester					
Conten	ıts					
	'					
Intend	ed lear	ning outcomes				
Course	es (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
S (1) +		,	, , ,			
` '		t in: English				
					tion offered — if not every seme-	
ster, in	format	ion on whether module ca	an be chosen to earn	a bonus)		
		on (approx. 30 minutes) o				
		ı poster (approx. 10 hours (15 pages)	s total) or			
			erman (assessment w	vill be held in English	n; in addition, the examiner may,	
where	possib	le, decide to hold assessi		_	,	
credita						
Allocat	tion of	places				
	-					
Additio	nal inf	ormation				
Worklo	oad					
150 h	150 h					
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
	(
Module	e appe	ars in				
	keinem Studiengang zugeordnet					



Earth Observation in Conservation O4-GEO-Module coordinator Module offered by	END /				
Module coordinator Module offered by	·ENV17-242-m01				
module coordinator					
Institute of Geography and G	Seology				
ECTS Method of grading Only after succ. compl. of module(s)	Jeology				
5 numerical grade					
Duration Module level Other prerequisites					
1 semester					
Contents					
Intended learning outcomes					
Courses (type, number of weekly contact hours, language — if other than German)					
S (1) + \ddot{U} (1)					
Module taught in: English					
Method of assessment (type, scope, language — if other than German, examination offer	red — if not every seme-				
ster, information on whether module can be chosen to earn a bonus)	•				
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addit where possible, decide to hold assessment in German) creditable for bonus	tion, the examiner 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					
keinem Studiengang zugeordnet					



Module	Module title Abbreviation					
Applie	Applied Earth Observation for Ecology 04-GEO-ENV18-242-mo1					
Module	e coord	linator		Module offered by		
				Institute of Geograp	hhy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		erical grade		,		
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	nts					
Intend	ed lear	ning outcomes				
Course	es (type	e, number of weekly conta	ct hours, language –	- if other than Germa	n)	
S (1) +		,				
` '		nt in: English				
Metho	d of as	sessment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
ster, in	format	ion on whether module c	an be chosen to earn	a bonus)		
b) prep c) term Langua where	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	tion of	places				
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
	keinem Studiengang zugeordnet					



Module	Module title Abbreviation					
Earth C	Observa	ation of Georisks			04-GEO-ENV19-242-m01	
Module	e coord	linator		Module offered by		
Moduli	e coord	iiiatoi		Institute of Geograp	aby and Goology	
ECTS	Moth	od of grading	Only after succ. con		ony and deology	
5						
Duratio		Module level	Other prerequisites			
1 seme	-					
Conten	nts	I	1			
Intend	ed lear	ning outcomes				
	cu icai	mm5 outcomes				
Course	c (tuno	number of weekly cente	est hours Janauaga	if other than Carra	nn)	
		, number of weekly conta	ici nours, ianguage –	- ii otilei tilali Gefma	111)	
S (1) + Module		nt in: English				
Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme-						
		ion on whether module c			and the every semie	
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	tion of	places				
Additio	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Module	Module title Abbreviation					
Enviro	Environmental Applications of Radar time-series 04-GEO-ENV20-242-mo1					
Module	e coord	linator		Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Meth	od of grading	Only after succ. con		, , <u>,</u>	
5		rical grade				
Duratio	Duration Module level Other prerequisites					
1 seme	ster					
Conten	its					
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
S (1) +		<u>, </u>	, , , ,			
` '		nt in: English				
Metho	d of as	sessment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
ster, in	format	ion on whether module ca	an be chosen to earn	a bonus)		
b) prep c) term Langua where	 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	tion of	places				
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
	keinem Studiengang zugeordnet					



## Para	Module coordinator ECTS Method of grading Only after succ. comes 5 numerical grade Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language - S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language - if other the ster, information on whether module can be chosen to earn 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 where possible, decide to hold assessment in German)	Institute of Geograp	· ·			
Institute of Geography and Geology Section	ECTS Method of grading Only after succ. comes Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language - S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language - if other the ster, information on whether module can be chosen to earn 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 where possible, decide to hold assessment in German)	Institute of Geograp	ohy and Geology			
Second State Sec	Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language if other the ster, information on whether module can be chosen to earn 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 where possible, decide to hold assessment in German)	npl. of module(s)	phy and Geology			
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Allocation of places Additional information Workload 150 h Teaching cycle	creditable for bonus					
Additional information Workload 150 h Teaching cycle						
Workload 150 h Teaching cycle	Allocation of places					
Workload 150 h Teaching cycle						
150 h Teaching cycle	Additional information					
150 h Teaching cycle	<u></u>					
Teaching cycle	Workload					
	150 h					
	Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Module	Module title Abbreviation					
Earth C	Earth Observation Terrain Analysis 04-GEO-ENV _{3-242-mo1}					
Module	Module coordinator Module offered by					
Moduli	e coord	illiatoi		Institute of Geograp	ahy and Goology	
ECTS	Meth		Only after succ. con		ony and deology	
5						
Duratio	·					
1 seme	-					
Conten	nts	I	1			
Intend	ed lear	ning outcomes				
	cu (cui	ming outcomes				
Course	c (tuno	number of weekly cente	est hours Janauaga	if other than Course	nn)	
S (1) +		, number of weekly conta	ict nours, tanguage –	- ii otilei tilali dellila	111)	
` '	` '	nt in: English				
			nguage — if other th	an German examina	ation offered — if not every seme-	
		ion on whether module c			and the sterior in the sterior server.	
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	tion of	places				
Additio	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Module coordinator						
Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s)						
Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s)						
ECTS Method of grading Only after succ. compl. of module(s)						
5 numerical grade Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language — if other than German) S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every						
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						
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S (1) + $\ddot{\text{U}}$ (1) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every						
Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every						
	seme-					
ster, information on whether module can be chosen to earn a bonus)						
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German) creditable for bonus						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Module	Module title Abbreviation					
Earth C	Earth Observation of Polar Regions 04-GEO-ENV5-242-mo1					
Module	Module coordinator Module offered by					
				Institute of Geograp	phy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		rical grade		,		
Duratio	Duration Module level Other prerequisites					
1 seme	1 semester					
Conten	nts					
	-					
Intend	ed lear	ning outcomes				
Course	es (type	, number of weekly conta	ct hours, language –	· if other than Germa	in)	
S (1) +		<u> </u>	, , , ,			
` '	` '	t in: English				
					tion offered — if not every seme-	
ster, in	format	ion on whether module ca	an be chosen to earn	a bonus)		
		on (approx. 30 minutes) o				
		a poster (approx. 10 hours (15 pages)	s total) or			
			erman (assessment w	vill be held in English	n; in addition, the examiner may,	
		le, decide to hold assessi	ment in German)			
credita						
Allocat	tion of	places				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					
keinem Studiengang zugeordnet						



Modul	Module title Abbreviation					
Earth (Earth Observation of Alpine Regions 04-GEO-ENV6-242-mo1					
Module coordinator Module offered by						
				Institute of Geograp	nhy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5						
Duratio	Duration Module level Other prerequisites					
1 seme	ester					
Conter	nts					
	1					
Intend	ed lear	ning outcomes				
		3				
Course	es (type	e, number of weekly conta		- if other than Germa	nn)	
S (1) +		, namber of weekly conta	act mours, tanguage	ii otilei tilali oelille	,	
` '	` '	nt in: English				
Metho	d of as	sessment (type, scope, la	anguage — if other th	an German, examina	ation offered — if not every seme-	
ster, in	format	ion on whether module o	an be chosen to earn	a bonus)		
		on (approx. 30 minutes) o				
		a poster (approx. 10 hour	s total) or			
		(15 pages) assessment: English or G	erman (assessment w	vill he held in English	n; in addition, the examiner may,	
		le, decide to hold assess		and be neta in English	i, in addition, the examiner may,	
	ble for					
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Module	Module title Abbreviation					
Earth O	Earth Observation in Biodiversity Research 04-GEO-ENV7-242-mo1					
Module	Module coordinator Module offered by					
				Institute of Geograp	ohy and Geology	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme						
Conten	ts					
Intende	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	n)	
S (1) + I						
Module	e taugh	t in: English				
					tion offered — if not every seme-	
-		ion on whether module ca		a bonus)		
		n (approx. 30 minutes) o poster (approx. 10 hours				
		(15 pages)	total) of			
Langua	ige of a	ssessment: English or Ge		ill be held in English	n; in addition, the examiner may,	
		e, decide to hold assessi	ment in German)			
credita						
Allocat	ion or j	DIACES				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
-						
Module	Module appears in					
keinem	keinem Studiengang zugeordnet					



Module	Module title Abbreviation					
Multi-S	Multi-Scale Earth Observation 04-GEO-ENV8-242-mo1					
Module	Module coordinator Module offered by					
Moduli		iniator		Institute of Geograp	ahy and Goology	
ECTS	Meth		Only after succ. con		ony and deology	
5	TS Method of grading Only after succ. compl. of module(s) numerical grade					
Duratio						
1 seme						
Conten	ıts	l	1			
Intend	ed lear	ning outcomes				
	cu (cui	ming outcomes				
Course	c (tuno	e, number of weekly conta	est hours Janauaga	if other than Corma	nn)	
S (1) +		, number of weekly colle	ict nours, tanguage –	- ii otilei tilali delilla	111)	
		nt in: English				
Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme-						
		ion on whether module c			and the creating semical	
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	places				
Additio	nal inf	formation				
			,			
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Module	Module title Abbreviation					
Earth C	Earth Observation in Biology 04-GEO-ENV9-242-mo1					
Module	Module coordinator Module offered by					
				Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. com	ıpl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	nn)	
S (1) + Module	` '	t in: English				
		sessment (type, scope, la ion on whether module c			ition offered — if not every seme-	
 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	places				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
	keinem Studiengang zugeordnet					
- Studiengang Zugeorunet						



Modul	Module title Abbreviation					
Interns	Internship 04-GEO-INT1-242-mo1					
Modul	Module coordinator Module offered by					
				Institute of Geograp	hhy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		successfully completed		,		
Duratio	on	Module level	Other prerequisites			
1 seme	ester					
Conter	ıts					
Intend	ed lear	ning outcomes				
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	n)	
P (o)						
Module taught in: English						
					tion offered — if not every seme-	
		ion on whether module c		a bonus)		
		of a presentation (appro		ill he held in English	; in addition, the examiner may,	
_	_	le, decide to hold assess	-	ill be field iii Liiglisi	i, ili additioli, the examine may,	
Allocat	tion of	places				
Additio	onal inf	ormation				
Additio	Additional information on module duration: during semester or as block					
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
	keinem Studiengang zugeordnet					



Module title Abbreviation						
Innovation Laboratory				04-GEO-INT2-242-m01		
Module coordinator			Module offered by			
Module Cooluliator			Institute of Geograp	aby and Goology		
ECTS N	Method of grading	Only after succ. con		ony and deology		
	numerical grade		ipt. or modute(3)			
Duration Module level Other prerequisites						
1 semester						
Contents	Contents					
Intended	l learning outcomes					
Courses	(type, number of weekly conta	ct hours, language –	- if other than Germa	nn)		
P (2)						
Module t	taught in: English					
	of assessment (type, scope, la ormation on whether module ca	-		tion offered — if not every seme-		
b) prepar c) term p Language	ntation (approx. 30 minutes) o ring a poster (approx. 10 hours raper (approx. 15 pages) e of assessment: English or Go ossible, decide to hold assess	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,		
Allocatio	on of places					
Addition	al information					
Addition	al information on module dura	tion: during semeste	er or as block			
Workload	d					
150 h						
Teaching	g cycle					
Referred	to in LPO I (examination regu	lations for teaching-o	degree programmes)			
Module a	Module appears in					
keinem Studiengang zugeordnet						



Module title				Abbreviation	
Master-Thesis EAGLE					04-GEO-MA1-162-m01
Module coordinator				Module offered by	
holder of the Professorship of Remote Sensing Institute of Geography and Geology		phy and Geology			
ECTS	Meth	od of grading	Only after succ. co	mpl. of module(s)	
28	numerical grade				
Duration Module level		Other prerequisite	Other prerequisites		
1 seme	1 semester graduate				
Contants					

Contents

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 especially the discussion of the Msc thesis. The thesis structure can comply to a standard scientific article but should exceed 50 pages.

Intended learning outcomes

Conducting an independent research topic within 6 months

Courses (type, number of weekly contact hours, language — if other than German)

No courses assigned to module

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

Master's thesis (approx. 60 pages) Language of assessment: English

Allocation of places

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Additional information

Time to complete: 6 months.

Workload

840 h

Teaching cycle

--

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

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Module appears in

Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016)

Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)

Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)



Module	Module title Abbreviation						
Final Colloquium on Master Thesis 04-GEO-MA2-162-mo1							
	04 GEO W//2 102 MOT						
Module coordinator				Module offered by			
holder of the Professorship of Remote Sensing				Institute of Geogra	phy and Geology		
ECTS		od of grading Only after succ. compl. of module(s)					
2 numerical grade							
			Other prerequisites				
graduate							
Conten	ts						
The final colloquium aims to present the aim and results of the Msc thesis to a scientific audience (EAGLE lecturer 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.							
Intende	ed lear	ning outcomes					
Presen	tation o	of the final Msc thesis					
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	an)		
K (o) Module	e taugh	t in: English					
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-		
Langua	ge of a	go minutes) with subsequessessment: English or Gee, decide to hold assess	erman (assessment w		n; in addition, the examiner may,		
Allocat	ion of p	olaces					
Additional information							
Worklo	ad						
60 h							
Teaching cycle							
Referre	d to in	LPO I (examination regu	lations for teaching-o	degree programmes)			
Module	appea	ars 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)



Module title Abbreviation						
Introduction to Spatial Data Analysis Software 04-GEO-MB1-242-m01						
Module coordinator				Module offered by	1	
holder of the Professorship of Remote S		Sensing	Institute of Geogra	aphy and Geology		
ECTS Method of grading Or		Only after succ. co	mpl. of module(s)			
5	nume	rical grade				
Durati	on	Module level	Other prerequisite	s		
1 seme	ester	graduate				
Conte	nts					
metric lidatio	g digitiz and atı n strate	zation and analysis/ visu mospheric corrections, d egies for validation / cha	nalization of geodata limension reduction) nge detection, veget	/ preprocessing of c / different approach ation indices / basic	ssing of raster and vector data in- optical remote sensing data (geo- nes, algorithms, sampling and va- is in the derivation of geophysical	
metric lidatio and bi bedo	g digitiz and atı n strate ophysic	zation and analysis/ visu mospheric corrections, d egies for validation / cha	nalization of geodata limension reduction) nge detection, veget	/ preprocessing of c / different approach ation indices / basic	optical remote sensing data (geo- nes, algorithms, sampling and va-	
metric lidatio and bi bedo Intend The se	g digitiz and ato n strate ophysic ed lear	ration and analysis/ visumospheric corrections, degies for validation / chacal parameters (e.g. LAI,	ualization of geodata limension reduction) nge detection, veget FAPAR, Chlorophyll c	/ preprocessing of of a preproach a proach at a proach at a proach at a proach at a proach a	optical remote sensing data (geo- nes, algorithms, sampling and va- is in the derivation of geophysical	
metric lidatio and bi bedo Intend The se use of	g digitiz and ato n strate ophysic ed lear minar a Geogra	ration and analysis/ visus mospheric corrections, degies for validation / chacal parameters (e.g. LAI, ning outcomes	ualization of geodata limension reduction) nge detection, veget FAPAR, Chlorophyll c ethodological skills o	/ preprocessing of content approach ation indices / basic content of leafs, Land	optical remote sensing data (geones, algorithms, sampling and values in the derivation of geophysical distribution Surface Alectical Market Surfac	
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metric lidatio and bi bedo Intend The se use of Course Ü (2) Modul Metho	g digitiz and att n strate ophysic led lear minar a Geogra es (type e taugh	ration and analysis/ visus mospheric corrections, degies for validation / chatcal parameters (e.g. LAI, ning outcomes with a timproving the metal Information System, number of weekly contact in: English	ualization of geodata limension reduction) nge detection, veget FAPAR, Chlorophyll cethodological skills owns. act hours, language anguage — if other the	/ preprocessing of of a different approach action indices / basic content of leafs, Land of the participants in — if other than German, examin	optical remote sensing data (geones, algorithms, sampling and values in the derivation of geophysical distribution Surface Alectical Market Surfac	

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

keinem Studiengang zugeordnet



Module title Abbreviation						
Introduction to Programming in Earth Observation					04-GEO-MB2-242-m01	
Module coordinator				Module offered by		
holder of the Professorship of Remote Sensing			Sensing	Institute of Geograp	ohy and Geology	
ECTS Method of grading Only after succ. co			ony and occopy			
5				, ,,		
Duratio			Other prerequisites			
1 semester graduate						
Conter	ıts					
mote S loops a	Theoretical basics and practical examples of programming and geostatistics focused on application within Remote Sensing and GIS are provided. Basic functionality such as script structure, implementation, functions, loops as well as programming syntax using the R language are introduced. Moreover, statistical basics related to environmental analysis are covered such as Random Forest or spatial queries.					
Intend	ed lear	ning outcomes				
Introdu	uction to	o programming and geos	tatistics for environm	ental data analysis.		
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
Ü (4) Modul	e taugh	t in: English				
					tion offered — if not every seme-	
b) prep c) term Langua where	ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German) creditable for bonus					
Allocat	tion of p	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teachi	Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)						

keinem Studiengang zugeordnet

Module appears in



Module title					Abbreviation	
From Field Measurements to Geoinformation					04-GEO-MB3-162-m01	
Module	Module coordinator Module offered by					
holder	holder of the Professorship of Remote Sensing			Institute of Geogra	Institute of Geography and Geology	
ECTS	Metho	od of grading	Only after succ. c	ompl. of module(s)		
5	nume	rical grade				
Duratio	Duration Module level Other		Other prerequisit	es		
1 semester graduate						
Conten	Contents					

This module sets a strong focus on field methods and data integration for selected types of land mapping. The contents of the course comprises the preparation of field campaigns, i.e. the selection of sampling schemes and methods appropriate for the subsequent analysis. A broad sequence of field devices will be introduced to the students. The field data collection can focus on different fields of environmental mapping, e.g. land use or vegetation, climate soil, geology, and others. Depending of the special focus of course, spatial integration and interpolation methods are presented.

Intended learning outcomes

The students will gain knowledge in how to collect field data for the purposes of training and validation land cover maps and geo-/biophysical parameters.

Courses (type, number of weekly contact hours, language — if other than German)

Ü (2)

Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (approx. 15 pages)

Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)

creditable for bonus

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

__

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

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Module appears in

Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016)

Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)

Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)



Module title					Abbreviation	
Advanced Coding for Earth Observation			n		04-GEO-OMA10-242-m01	
Module coordinator				Module offered by		
module coordinator				Institute of Geograp	phy and Geology	
ECTS	CTS Method of grading Only after succ. con			ony and deology		
5	numerical grade		ipti oi illoudite(s)			
	Duration Module level Other prerequisites					
1 semester						
Conten	Contents					
		,				
Intend	ed lear	ning outcomes	-			
		9				
Course	es (type	, number of weekly conta	ict hours, language —	- if other than Germa	nn)	
S (1) +		- weekly conta	- tanguage	ii other than denna	,	
. ,	` '	nt in: English				
Metho	d of as	sessment (type, scope, la	nguage — if other the	an German, examina	ition offered — if not every seme-	
		ion on whether module c			,	
b) prep c) term Langua where	paring a paper age of a	le, decide to hold assess	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	tion of	places				
Additio	onal inf	ormation				
Worklo	oad					
150 h						
Teachi	ng cvc	le				
						
Referre	ed to in	LPO I (examination regu	lations for teaching-	degree programmes)		
		- Grammation regu	- Cacining C	acoree programmes)		
Modul	Modulo appears in					
	Module appears in keinem Studiengang zugeordnet					
kemem studiengang zugeordnet						



### Refer	Module title					Abbreviation			
Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s)	, -					04-GEO-OMA11-242-m01			
ECTS Method of grading Module level Module l	Module coordinator				Module offered by				
To numerical grade To numerical grade To semester To					Institute of Geograp	ohy and Geology			
Duration Module level Other prerequisites Contents Module level Module	ECTS	TS Method of grading Only after succ. com			ıpl. of module(s)				
Contents Intended learning outcomes Courses (type, number of weekly contact hours, language — if other than German) S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) 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	5	5 numerical grade							
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Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German) creditable for bonus Allocation of places	S (1) +	Ü (1)							
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Additional information	Allocat	tion of _I	places	•					
Additional information									
	Additio	onal inf	ormation						
(•				-			
Workload	Worklo	ad							
150 h									
Teaching cycle	150 h								
<u></u>	_	ng cycl	e						
Referred to in LPO I (examination regulations for teaching-degree programmes)	_	ng cycl	e						
	Teachi			lations for teaching-c	legree programmes)				
Module appears in	Teachi			lations for teaching-c	legree programmes)				
keinem Studiengang zugeordnet	Teachin	ed to in	LPO I (examination regu	lations for teaching-c	legree programmes)				



Module title Abbreviation						
Advanced Cloud Computing					04-GEO-OMA12-242-m01	
Module coordinator				Module offered by		
Modul	e coord	illiatoi		<u> </u>	nhy and Coology	
ECTS	Meth	od of grading	Only after succ. con	Institute of Geogra	priy and Geology	
5		rical grade		iipt. or iiiouute(s)		
Duration	-	Module level	Other prerequisites			
1 seme						
Conter	nts	I.				
Intend	ed lear	ning outcomes				
intenu	- tear	iiiig outcomes				
	- (+····	number of the	antast haure Janeur	if other than Carry	nn)	
		, number of weekly o	contact hours, language –	- II otner than Germa	in)	
S (1) +		nt in: English				
		-	ne Janguage — if other th	an German evamina	ation offered — if not every seme-	
			ule can be chosen to earn		ation officied in not every seme	
b) prep c) term Langua where	paring and paring and paring particular part	le, decide to hold as	hours total) or	vill be held in Englisl	n; in addition, the examiner may,	
Alloca	tion of	places				
Additio	onal inf	ormation				
Worklo	oad		,			
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
	keinem Studiengang zugeordnet					



Module title Abbreviation						
Spatial modelling and prediction				•	04-GEO-OMA1-242-m01	
Modul	e coorc	linator		Module offered by		
Moduli	e coore	illiatoi		Institute of Geograp	nhy and Goology	
ECTS	Meth	od of grading	Only after succ. con		priy and deology	
5		erical grade		ipt. or inodute(3)		
Duratio		Module level	Other prerequisites			
1 seme						
Conter	nts	l	l.			
Intend	ed lear	ning outcomes	-			
	cu icai	mma vaccomes				
Course	e (tuno	e, number of weekly conta	act hours language	if other than Carra	nn)	
S (1) +		, number of weekly conta	ict nours, tanguage –	- II other than Germa	111)	
` '	` '	nt in: English				
		_	nguage — if other th	an German examina	ation offered — if not every seme-	
		ion on whether module c			and the every semie	
b) prep	oaring a	on (approx. 30 minutes) o a poster (approx. 10 hours				
Langua	age of a possib	le, decide to hold assess		vill be held in English	n; in addition, the examiner may,	
Allocat			-			
		F				
Δdditic	nnal inf	formation				
Auditil	- in at IIII	ormation .				
Worklo	nad					
	Jau					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
						
Module appears in						
keinem Studiengang zugeordnet						



Module title					Abbreviation	
UAS Application in Earth Observation				04-GEO-OMA13-242-m01		
Modul	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester					
Conter	ıts					
	_					
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, Janguage —	· if other than Germa		
S (1) +		, namber of weekly conto	ser nours, tanguage	Julier than Jerma	,	
		t in: English				
		_	nguage — if other tha	an German, examina	tion offered — if not every seme-	
		ion on whether module ca				
b) prep c) term Langua where	paring a paper age of a	le, decide to hold assess	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	tion of	places				
Additio	onal inf	ormation				
Worklo	oad					
150 h						
Teachi	Teaching cycle					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modul	Module appears in					
	keinem Studiengang zugeordnet					



Module title Abbreviation					Abbreviation	
Theory	and p	ractice of UAS operation a	and methods		04-GEO-OMA14-242-m01	
Modul	e coord	linator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. com		and corregy	
5		erical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester					
Conter	ıts					
Intend	ed lear	ning outcomes				
Course	s (type	e, number of weekly conta	ict hours, language –	if other than Germa	n)	
S (1) +	` '					
Module	e taugh	nt in: English				
					tion offered — if not every seme-	
,		ion on whether module ca		a bonus)		
		on (approx. 30 minutes) o a poster (approx. 10 hours				
		(15 pages)	s total) of			
Langua	age of a	assessment: English or Ge		vill be held in English	n; in addition, the examiner may,	
		le, decide to hold assess	ment in German)			
credita						
Allocat	tion of	places				
Additio	nal inf	formation				
			,			
Worklo	oad					
150 h	150 h					
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinen	keinem Studiengang zugeordnet					



Module title Abbreviation						
UAS ba	ased Ea	orth Observation data and	alysis	•	04-GEO-OMA15-242-m01	
Module coordinator				Module offered by		
	<u> </u>			Institute of Geograp	phy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		rical grade		ipti oi modute(s)		
Duratio		Module level	Other prerequisites			
1 seme						
Conten	nts	1	,			
		,				
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	act hours language —	if other than Garma	nn)	
S (1) +		, number of weekly conte	ter nours, language	ii otiici tilali ociilla	,	
` '	` '	nt in: English				
Metho	d of as	sessment (type, scope, la	nguage — if other th	an German, examina	ition offered — if not every seme-	
		ion on whether module c				
		on (approx. 30 minutes) o				
		a poster (approx. 10 hours (15 pages)	s total) or			
			erman (assessment w	vill be held in English	n; in addition, the examiner may,	
		le, decide to hold assess			,	
credita	ble for	bonus	-			
Allocat	tion of	places				
Additio	nal inf	ormation				
Worklo	oad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Module title Abbreviation						
Advanc	ed Ear	th Observation Analysis			04-GEO-OMA16-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	hy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		rical grade		,		
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	its					
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
S (1) +		•				
Module	e taugh	t in: English				
					ition offered — if not every seme-	
		ion on whether module ca		a bonus)		
		on (approx. 30 minutes) o				
, ,	_	ı poster (approx. 10 hours (15 pages)	s total) or			
			erman (assessment w	vill be held in English	n; in addition, the examiner may,	
	•	le, decide to hold assess	ment in German)			
credita	-					
Allocat	ion of	places				
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					
keinem	keinem Studiengang zugeordnet					



Module title					Abbreviation
Innovative Earth Observation Applications					04-GEO-OMA17-242-m01
Modul	e coord	linator		Module offered by	<u> </u>
Moduli	e coord	illiatoi		Institute of Geograp	phy and Goology
ECTS	Meth	od of grading	Only after succ. con		ony and deology
5		rical grade		ipt. or inodute(3)	
Duratio		Module level	Other prerequisites		
1 seme					
Conter	nts	I.			
Intend	ed lear	ning outcomes			
	- Cu (Cu)	ining outcomes			
Cource	e (tupo	, number of weekly conta	est hours language	if other than Corma	(n)
S (1) +		, number of weekly conta	ict nours, tanguage –	- II Other than Germa	iii)
` '	` '	nt in: English			
		_	nguage — if other tha	an German, examina	tion offered — if not every seme-
		ion on whether module ca			
b) prep c) term Langua where	paring a paper age of a	le, decide to hold assess	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,
Allocat	tion of	places			
Additio	onal inf	ormation			
	-1				
Worklo	oad				
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
	keinem Studiengang zugeordnet				
kemem Studiengang zugeordnet					



Module title Abbreviation						
Advanced Remote Sensing Applications					04-GEO-OMA18-242-m01	
Modul	e coord	linator		Module offered by		
Modul	e coord	illiatoi			abu and Caalagu	
ECTS	Moth	od of grading	Only after succ. con	Institute of Geograp	priy and Geology	
5		rical grade		ipt. or inodute(s)		
Duration		Module level	Other prerequisites			
1 seme						
Conter	nts	<u> </u>	<u> </u>			
Intend	ed lear	ning outcomes	-			
	cu (cai	iiii 5 vateviii 63				
Course	oc (tuno	number of weekly cente	ect hours language	if other than Carra	nn)	
S (1) +		, number of weekly conta	ict flours, tallguage –	- ii otilei tilali dellila	111)	
		it in: English				
		-	nguage — if other th	an German examina	ation offered — if not every seme-	
		ion on whether module c			and in the every seme	
b) prep c) term Langua where	paring and p paring and paring and p paring and paring	le, decide to hold assess	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Alloca	tion of	places				
Additio	onal inf	ormation				
			,			
Worklo	oad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·						
Module appears in						
	keinem Studiengang zugeordnet					



Module title					Abbreviation	
Novel Image Analysis Methods					04-GEO-OMA19-242-m01	
Module coordinator				Module offered by		
				Institute of Geogra	nhy and Geology	
ECTS	Meth	od of grading	Only after succ. con		priy and deology	
5		erical grade		iipii oi iiiouute(3)		
Durati		Module level	Other prerequisites	<u> </u>		
1 seme						
Conte	nts					
Intend	led lear	ning outcomes				
		9				
Course	es (type	number of weekly	 contact hours, language –	- if other than Gorma	an)	
S (1) +		, number of weekly	contact nours, tanguage	ii other than define		
		nt in: English				
			pe, language — if other th ule can be chosen to earn		ation offered — if not every seme-	
b) prep c) term Langua where	paring and paring and paring particular part	le, decide to hold as	hours total) or	vill be held in Englisl	h; in addition, the examiner may,	
Alloca	tion of	places				
Additi	onal inf	ormation				
Workle	oad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	Module appears in					
	keinem Studiengang zugeordnet					



Module	Module title Abbreviation					
Spatio-	tempo	ral environmental Metho	ds		04-GEO-OMA20-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	nhy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		rical grade		ipti oi modute(s)		
Duratio		Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
		-				
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	an)	
S (1) + I		,				
		t in: English				
					ation offered — if not every seme-	
ster, in	format	ion on whether module ca	an be chosen to earn	a bonus)		
		on (approx. 30 minutes) o				
	_	ı poster (approx. 10 hours (15 pages)	s total) or			
			erman (assessment w	vill be held in English	n; in addition, the examiner may,	
where	possib	le, decide to hold assessi		J	,	
credita	ble for	bonus				
Allocat	ion of	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					
	keinem Studiengang zugeordnet					



Module title					Abbreviation	
Earth Observation Research Advances					04-GEO-OMA21-242-m01	
Modul	e coord	linator		Module offered by		
				Institute of Geograp	hy and Geology	
ECTS	Meth	od of grading	Only after succ. con	<u> </u>	ony and deology	
5		erical grade		,		
Duratio	on	Module level	Other prerequisites			
1 seme	ester					
Conter	ıts					
Intend	ed lear	ning outcomes				
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)	
S (1) +		•				
Modul	e taugh	nt in: English				
					tion offered — if not every seme-	
		ion on whether module c		a bonus)		
		on (approx. 30 minutes) o				
		a poster (approx. 10 hours (15 pages)	s total) of			
			erman (assessment w	vill be held in English	n; in addition, the examiner may,	
		le, decide to hold assess	ment in German)			
credita	_					
Allocat	tion of	places				
Additio	onal inf	formation				
Worklo	oad					
150 h	150 h					
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in						
keinen	keinem Studiengang zugeordnet					



Module title Abbreviation					Abbreviation	
Science from Wall-to-Wall					04-GEO-OMA22-242-m01	
Module	coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS		od of grading	Only after succ. com	ıpl. of module(s)		
5	nume	rical grade	<u></u>			
Duratio		Module level	Other prerequisites			
1 seme						
Conten	ts					
Intende	ed lear	ning outcomes				
		, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (1) + I Module		t in: English				
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-	
b) prep c) term Langua	aring a paper ige of a possibl	e, decide to hold assessi	s total) or erman (assessment w	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					
	keinem Studiengang zugeordnet					



Module	Module title Abbreviation					
Introduction to Active remote sensing systems o ₄ -GEO-OMA _{2-242-mo1}						
Module	coordi	inator		Module offered by		
	COOIG			Institute of Geograp	phy and Geology	
ECTS	Metho	od of grading	Only after succ. com		ony and deology	
		rical grade		ipti oi modute(s)		
Duration						
1 semes						
Content	ts					
Intende	d learr	ning outcomes				
		<u> </u>				
Courses	s (tyne	, number of weekly conta	ct hours, Janguage —	· if other than Germa	nn)	
S (1) + Ü		, hamber of weekly conta	tanguage	Julier than Jerma	,	
` '	` '	t in: English				
Method	of ass	essment (type, scope, la	nguage — if other tha	an German, examina	ition offered — if not every seme-	
		on on whether module ca			,	
b) prepa c) term p Languag	aring a paper ge of a oossibl	e, decide to hold assessi	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocation	ion of p	olaces				
Addition	nal info	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
(c.cammation regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Modul	Module title Abbreviation					
Information sciences in Remote Sensing 04-GEO-OMA23-242-mo1						
Module	e coord	linator		Module offered by		
				Institute of Geograp	ohv and Geology	
ECTS	Meth	od of grading	Only after succ. con		, a c c c c c c c c c c c c c c c c c c	
5		erical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester					
Conter	ıts					
Intend	ed lear	ning outcomes				
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)	
S (1) +		<u>, </u>	, , ,		•	
		nt in: English				
					tion offered — if not every seme-	
ster, in	format	ion on whether module c	an be chosen to earn	a bonus)		
b) prep c) term Langua where	oaring a paper age of a possib	le, decide to hold assess	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
credita	_					
Allocat	LIVII UI	piaces				
	onal ist	formation				
Auditio	unat ini	formation				
Walder J						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
						
Module appears in						
keinem Studiengang zugeordnet						



Module cordinator					
Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade					
ECTS Method of grading Only after succ. compl. of module(s)					
Duration Module level Other prerequisites 1 semester					
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 seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus					
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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					
creditable for bonus					
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Allocation of places					
					
Additional information					
					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
keinem Studiengang zugeordnet					



Module	Module title Abbreviation					
Al approaches in Earth Observation 04-GEO-OMA25-242-mo1						
Module coordinator				Module offered by	<u> </u>	
Moduli	e coord	iiiatoi		Institute of Geograp	phy and Goology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		erical grade		ipt. or inodute(3)		
Duratio		Module level	Other prerequisites			
1 seme						
Conter	nts	I .				
Intend	ed lear	ning outcomes				
	- Cu (Cu)	ming outcomes				
Cource	c (tupo	e, number of weekly conta	est hours language	if other than Corma	(1)	
S (1) +		, number of weekly conta	ict nours, language –	- II Other than Germa	iii)	
` '	` '	nt in: English				
			nguage — if other tha	an German, examina	tion offered — if not every seme-	
		ion on whether module ca				
b) prep c) term Langua where	paring a paper age of a	le, decide to hold assess	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	tion of	places				
Additio	onal inf	formation				
	-1					
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Referred to in El OT (examination regulations for teaching-degree programmes)						
Modul	Module appears in					
	keinem Studiengang zugeordnet					
kemem Studiengang zugeordnet						



Module	Module title Abbreviation					
Processing and image analysis of active remote sensing sy				o4-GEO-OMA3-242-mo1		
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5		rical grade				
Duratio		Module level	Other prerequisites			
1 seme						
Conten	ts					
Intende	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)	
S (1) +						
		t in: English				
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-	
-				a Dollus)		
		n (approx. 30 minutes) o poster (approx. 10 hours				
		(15 pages)	retary of			
				ill be held in English	n; in addition, the examiner may,	
where credita		e, decide to hold assessi	ment in German)			
Allocat	ion of J	JIALES				
	1					
Additio	nat inf	ormation				
Workload						
150 h						
Teaching cycle						
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Referred to in LPO I (examination regulations for teaching-degree programmes)						
	Module appears in					
keinem Studiengang zugeordnet						



Modul	Module title Abbreviation					
Lidar Remote Sensing 04-GEO-OMA ₄ -242-mo1					04-GEO-OMA4-242-m01	
Module coordinator Module offered by						
				Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. com	ıpl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conter	ıts		,			
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	ın)	
S (1) +		, name of the only	et nours, tanguage	other than comme	9	
		t in: English				
Metho	d of ass	sessment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
		ion on whether module ca			,	
b) prep c) term Langua where	oaring a paper age of a	le, decide to hold assessi	s total) or erman (assessment w	ill be held in English	n; in addition, the examiner may,	
Allocat	tion of p	olaces				
	_,					
Additio	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appea	ars in				
	keinem Studiengang zugeordnet					



Hypersectral Earth Observation Module ordered by		Module title Abbreviation					
Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s)	Hyperspectral Earth Observation 04-GEO-OMA5-242-mo1					04-GEO-OMA5-242-m01	
Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s)	Modulo coordinator				Module offered by		
ECTS Method of grading Module level Module le	Moduli	e coord	illiatoi			phy and Goology	
Duration Module level Other prerequisites	FCTS	Meth		Only after succ. com	<u> </u>	my and deology	
Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language — if other than German) S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) 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					ipi. or module(3)		
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Intended learning outcomes Courses (type, number of weekly contact hours, language — if other than German) S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information			†				
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 seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information	Conter	nts					
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 seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information							
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 seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information	Intend	led lear	ning outcomes				
S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information							
S (1) + Ü (1) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information	Course	es (type	number of weekly conta	ict hours, language —	if other than Germa	n)	
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information			- Hamber of Weekly Conte	ice nours, language	ii otilei tilaii oeiilla	11)	
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information	` '	` '	nt in: English				
ster, information on whether module can be chosen to earn a bonus) a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) term paper (15 pages) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may where possible, decide to hold assessment in German) creditable for bonus Allocation of places Additional information	Metho	d of as	sessment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
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						,	
Additional information	b) prep c) term Langua where	paring and paper age of a possib	a poster (approx. 10 hours (15 pages) assessment: English or Go le, decide to hold assess	s total) or erman (assessment w	vill be held in English	ı; in addition, the examiner may,	
	Allocat	tion of	places				
Workload	Additio	onal inf	ormation				
Workload							
		Workload					
150 h	Worklo	vau					
Teaching cycle		uau					
	150 h		le				
Referred to in LPO I (examination regulations for teaching-degree programmes)	150 h		e				
	150 h Teachi 	ing cycl		lations for teaching-c	degree programmes)		
Module appears in	150 h Teachi 	ing cycl		lations for teaching-c	degree programmes)		
keinem Studiengang zugeordnet	150 h Teachi Referre	ing cycl	LPO I (examination regu	lations for teaching-c	degree programmes)		



Module title Abbreviation					
Earth Obse	ervation Informatics		04-GEO-OMA6-242-m01		
Module co	ordinator		Module offered by		
			Institute of Geograp	phy and Geology	
ECTS Me	ethod of grading	Only after succ. com		ony and deology	
	merical grade		1		
Duration	Module level	Other prerequisites			
1 semester	·				
Contents					
Intended l	earning outcomes				
Courses (t	pe, number of weekly conta	act hours, language —	· if other than Germa	ın)	
S (1) + Ü (1	•	, , ,			
• • • • • • • • • • • • • • • • • • • •	ught in: English				
				tion offered — if not every seme-	
ster, inform	nation on whether module c	an be chosen to earn	a bonus)		
	ation (approx. 30 minutes) o				
	ig a poster (approx. 10 hours per (15 pages)	s total) or			
		erman (assessment w	vill be held in English	n; in addition, the examiner may,	
•	sible, decide to hold assess	ment in German)	_	· ·	
creditable					
Allocation	of places				
<u>Additional</u>	information				
					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
keinem Studiengang zugeordnet					



Module	Module title Abbreviation					
Introduction to Spatial Python 04-GEO-OMA7-242-mo1						
Module	e coord	linator		Module offered by		
		- Indicor		Institute of Geograp	nhy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and deology	
5		rical grade		ipu oi modute(o)		
Duratio		Module level	Other prerequisites			
1 seme	-					
Conten	nts	1				
		,				
Intend	ed lear	ning outcomes	,			
Course	s (type	, number of weekly conta	ict hours Janguage —	if other than Garma	n)	
S (1) +		, number of weekly conta	ter nours, language	n other than defina	iii)	
` '		nt in: English				
		_	nguage — if other tha	an German, examina	tion offered — if not every seme-	
		ion on whether module ca			,	
b) prep c) term Langua	oaring a paper age of a possib	le, decide to hold assessi	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	tion of	places				
Additio	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Module t	Module title Abbreviation					
Advanced Spatial Python					04-GEO-OMA8-242-m01	
Module coordinator				Module offered by		
				Institute of Geograp	ohy and Geology	
		d of grading	Only after succ. com	pl. of module(s)		
		ical grade				
Duration		Module level	Other prerequisites			
1 semest	1					
Contents	<u> </u>					
Intended	d learn	ing outcomes				
Courses	(type,	number of weekly conta	ct hours, language –	if other than Germa	n)	
S (1) + Ü Module t		in: English				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)						
b) prepa c) term p Languag	ring a paper (se of as ossible	e, decide to hold assessr	total) or erman (assessment w	rill be held in English	n; in addition, the examiner may,	
Allocatio						
Addition	al info	ormation				
Workload						
150 h						
Teaching cycle						
						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module a	appea	rs in				
keinem Studiengang zugeordnet						



Module	Module title Abbreviation						
Advanc	Advanced Spatial Programming 04-GEO-OMA9-242-mo1						
Module	e coord	linator		Module offered by			
				Institute of Geograp	nhy and Geology		
ECTS	Meth	od of grading	Only after succ. con		ony and deology		
5		rical grade		ipti oi iiioddic(s)			
Duratio							
1 seme							
Conten	ıts	1					
	-	,					
Intend	ed lear	ning outcomes					
		9 • • • • • • • • • • • • • • • • •					
Course	s (type	, number of weekly conta	uct hours Janguage —	- if other than Garma	nn)		
S (1) +		, number of weekly conte	ter nours, language	ii other than define	,		
		nt in: English					
Metho	d of as	sessment (type, scope, la	nguage — if other th	an German, examina	ition offered — if not every seme-		
		ion on whether module c					
a) pres	entatio	on (approx. 30 minutes) o	r				
		poster (approx. 10 hours	s total) or				
		(15 pages)	arman (accaccment w	ill he held in English	n; in addition, the examiner may,		
		le, decide to hold assess		vili be nela ili Liiglisi	i, in addition, the examiner may,		
credita							
Allocat	ion of	places					
Additio	nal inf	ormation					
Workload							
150 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
(c.cammation regulations for teaching-degree programmes)							
Module appears in							
keinem Studiengang zugeordnet							



Module	Module title Abbreviation					
Applied Remote Sensing outside academia 04-GEO-SOS11-242-mo1					04-GEO-SOS11-242-m01	
Module	e coord	linator		Module offered by		
				Institute of Geograp	phy and Geology	
ECTS	Meth	od of grading	Only after succ. con		ony and ecology	
5		successfully completed		, , ,		
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	its					
Intende	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
S (2)		,	, 5 0			
	e taugh	ıt in: English				
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
b) prep c) term Langua	aring a paper age of a	on (approx. 30 minutes) on (approx. 10 hours a poster (approx. 10 hours (approx. 15 pages) assessment: English or Gele, decide to hold assessi	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of	places				
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
	keinem Studiengang zugeordnet					



Module title					Abbreviation	
Science Communication					04-GEO-SOS12-242-m01	
Modul	e coord	inator		Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. con			
5	(not)	successfully completed				
Durati	on	Module level	Other prerequisites			
1 seme	ester					
Conte	nts					
Intend	ed lear	ning outcomes				
Course	es (type	, number of weekly conta	ıct hours, language –	- if other than Germa	an)	
S (2)						
Modul	e taugh	t in: English				
		sessment (type, scope, la ion on whether module c			ition offered — if not every seme-	
b) prep c) term Langua	paring and paring and paring particular part	on (approx. 30 minutes) on (approx. 10 hours) on poster (approx. 10 hours) (approx. 15 pages) ssessment: English or Gole, decide to hold assess	s total) or erman (assessment v	vill be held in English	n; in addition, the examiner may,	
Alloca	tion of	places				
Additio	onal inf	ormation				
Workle	oad		,			
150 h						
Teaching cycle						
Referr	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modul	Module appears in					
	keinem Studiengang zugeordnet					



Module	e title				Abbreviation		
Scienti	Scientific Presentation 04-GEO-SOS1-242-mo1						
Module	e 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	ıpl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	its						
appear be part	ance of	f presentations will be dis well. Alternative present	scussed and guidelin	es provided. Individ	pearance. Moreover design and lual training of presentations will litr, beamer).		
		ning outcomes					
Presen presen			issed with regard to i	ts scientific content	and goal to ensure high quality		
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	an)		
S (2)							
Module	e taugh	t in: English					
		sessment (type, scope, la on on whether module ca			ation offered — if not every seme-		
b) prep c) term Langua	aring a paper age of a	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assessi	total) or erman (assessment w	ill be held in Englisk	n; in addition, the examiner may,		
Allocat	ion of p	olaces					
	•						
Additio	nal inf	ormation					
Worklo	Workload						
150 h	150 h						
Teachi	Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						

keinem Studiengang zugeordnet

Module appears in



	Module title Abbreviation					
Science	e Visua	llization			04-GEO-SOS13-242-m01	
Module coordinator Module offered by						
				Institute of Geograp	phy and Geology	
ECTS	Meth	od of grading	Only after succ. com		only und occion	
5		successfully completed		, ,,		
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	its					
	-		•			
Intende	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
S (2)		,	, 5 0			
	e taugh	ıt in: English				
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
b) prep c) term Langua	aring a paper age of a	on (approx. 30 minutes) on (approx. 10 hours a poster (approx. 10 hours (approx. 15 pages) assessment: English or Gele, decide to hold assessi	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of	places				
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					
	keinem Studiengang zugeordnet					



Module title Abbrevi					Abbreviation	
Advand	ced Sci	entific Softskills			04-GEO-SOS14-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	hy and Geology	
ECTS	Meth	od of grading	Only after succ. com		ony and desiresy	
5		successfully completed		1 ,,		
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ıts					
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language —	- if other than Germa	in)	
S (2)	<u> </u>	,			,	
. ,	e taugh	t in: English				
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
b) prep c) term Langua	oaring a paper age of a	on (approx. 30 minutes) on poster (approx. 10 hours (approx. 15 pages) assessment: English or Gele, decide to hold assess	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	tion of	olaces				
Additio	onal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
	keinem Studiengang zugeordnet					



Module title					Abbreviation	
Advanc	ed Ski	lls 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	1	od of grading	Only after succ. con		,	
5	(not)	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts		,			
		entific articles will be disc eover, general writing guid			ructure as well as wording will be roduced.	
Intende	ed lear	ning outcomes				
		and articles will be discuas well as articles.	ıssed with regard to i	ts scientific content	and goal to ensure high quality	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
S (2) Module	e taugh	t in: English				
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
b) prep c) term Langua	aring a paper age of a	on (approx. 30 minutes) on poster (approx. 10 hours (approx. 15 pages) assessment: English or Gele, decide to hold assessi	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of p	places				
Additio	nal inf	ormation				
Worklo	ad					
150 h	150 h					
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
	keinem Studiengang zugeordnet					



Module	Module title Abbreviation					
Research Project Management 04-GEO-SOS				04-GEO-SOS4-242-m01		
Module	e coord	inator		Module offered by		
holder	of the I	Professorship of Remote	Sensing	Institute of Geograp	phy and Geology	
ECTS		od of grading	Only after succ. con			
5	nume	rical grade	-			
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
funds a	are sho		ect structures and co		ocesses for acquiring third-party ed and discussed. Teamwork and	
Intend	ed lear	ning outcomes				
		provide students with bas are then able to plan and		J.,	nd completing research projects.	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	an)	
S (2) Module	e taugh	t in: English				
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-	
b) prep c) term Langua	aring a paper age of a	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assessi	s total) or erman (assessment w	vill 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



Module title Abbreviation					
ic Map)S			04-GEO-SOS6-242-m01	
coord	inator		Module offered by		
		Sensing		ohy and Geology	
	·			on, and cooking,	
			, , ,		
n	Module level	Other prerequisites			
ster	graduate				
is					
f maps	will be discussed and gu	uidelines provided. Ir			
d learr	ning outcomes				
ill be c	liscussed with regard to i	ts scientific content	and goal to ensure h	igh quality spatial information.	
(type	, number of weekly conta	ct hours, language –	- if other than Germa	an)	
taugh	t in: English				
				ation offered — if not every seme-	
aring a paper ge of a	poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge	s total) or erman (assessment w	vill be held in English	n; in addition, the examiner may,	
on of p	olaces				
nal info	ormation				
		•			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
	coord of the F Metho numer n tter s maps levant d learr ill be c s (type, taugh of ass ormati entatio aring a paper ge of a ossibl on of p	coordinator of the Professorship of Remote Method of grading numerical grade n	coordinator If the Professorship of Remote Sensing Method of grading numerical grade In Module level Iter graduate S maps will be discussed and evaluated with regard of maps will be discussed and guidelines provided. In levant programs will be introduced. Id learning outcomes It be discussed with regard to its scientific content and the company of the content of the company of the company of the content of the conte	coordinator If the Professorship of Remote Sensing Method of grading numerical grade In Module level In Module level In Grading Indicate In Module level In Module level In Module level In Grading Indicate In Module level In Module offered by Institute of Geogram Institute of Module Send Institute of Module Insti	

Module appears in



Modul	Module title Abbreviation					
Scienti	ific Gra	phs		•	04-GEO-SOS7-242-m01	
Module	e coord	linator		Module offered by		
		Professorship of Remote	Sensing	Institute of Geogra	nhy and Geology	
ECTS		od of grading	Only after succ. con		priy and deology	
5		rical grade		ipti oi inodute(s)		
Duratio		Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
and me	essage		ed and guidelines pr	ovided. İndividual tr	al appearance. Moreover content raining of graph creation will be my).	
Intend	ed lear	ning outcomes				
Figures	s and g	raphs will be discussed v	vith regard to its scie	ntific content and go	al to ensure high quality graphs.	
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	an)	
S (2) Module	e taugh	it in: English				
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-	
b) prep c) term Langua	paring and	on (approx. 30 minutes) on poster (approx. 10 hours (approx. 15 pages) assessment: English or Gole, decide to hold assess	s total) or erman (assessment w	vill be held in Englisl	h; in addition, the examiner may,	
Allocat	tion of	places				
			-			
Additio	onal inf	ormation				
	•					
Worklo	oad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
		2 2 (2.12				
Modul	Module appears in					
	nouse appears in					



Module	Module title Abbreviation						
Innova	Innovative Research Softskills 04-GEO-SOS9-242-mo1						
Module	coord	inator		Module offered by			
holder	of the F	Professorship of Remote	Sensing	Institute of Geogra	phy and Geology		
ECTS		od of grading	Only after succ. com		p.,		
5		successfully completed		,			
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
		d potential of novel scied within the group and op			discussed. The various steps will		
Intend	ed lear	ning outcomes					
Knowle	dge of	identifying and approach	ning challenges and p	otential within nove	el research approaches.		
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	an)		
S (2) Module	taugh	t in: English					
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-		
b) prep c) term Langua	aring a paper ige of a	n (approx. 30 minutes) o poster (approx. 10 hours (approx. 15 pages) ssessment: English or Ge e, decide to hold assess	s total) or erman (assessment w	vill be held in Englisi	h; in addition, the examiner may,		
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Workload							
150 h							
Teachi	Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)							

Module appears in



Module title					Abbreviation	
Introduction to Remote Sensing and Geoanalysis					04-GEO-TB1-162-m01	
Module coordinator Mo				Module offered by		
holder	holder of the Professorship of Remote Sensing			Institute of Geogra	Institute of Geography and Geology	
ECTS	Meth	od of grading	Only after succ. c	ompl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisit	Other prerequisites		
1 seme	1 semester graduate					
Conten	Contents					

The lecture "Introduction to Remote Sensing" ensures that participants will gain a solid understanding of the following topics: the role of remote sensing in nowadays world / basics of electromagnetic radiation / history of remote sensing and image acquisition platforms / satellite orbits and orbit geometry / current spaceborne sensors / impacts of the atmosphere / geocorrection of digital imagery / radiometric correction of digital images / principles of image classifications / time series and big data / geodata concepts / geodata standards / geodata visualization / the job market for remote sensing and geo IT specialists

Intended learning outcomes

The lecture provides participants with a solid and comprehensive theoretical background of the background and physical principles of remote sensing, gives an introduction into digital image processing, as well as geodata concepts, standards and future developments

Courses (type, number of weekly contact hours, language — if other than German)

V (2)

Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

written examination (approx. 45 minutes)

Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)

Allocation of places

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)



Module title					Abbreviation	
Applications of Earth Observation					04-GEO-TB2-162-m01	
Module coordinator				Module offered by		
holder	holder of the Professorship of Remote Sensing			Institute of Geography and Geology		
ECTS	Metho	od of grading	Only after succ. con	compl. of module(s)		
5	nume	rical grade				
Duratio	Duration Module level		Other prerequisites			
1 seme	1 semester graduate					
Conten	Contents					

The lecture addresses applications of remote sensing of the atmosphere, the oceans, and particularly the land surface. The presented materials include among others applications in geography, environmental planning, ecology, biology, oceanology, soil science, geology, atmospheric science, but also e.g. pollution control (monitoring) and natural resource management. Which research questions can be answered by the means of Earth Observation and geoanalysis? The lecture comprises commonly used methodological approaches for the derivation of the different parameters. The covers the issue of implementation of the remote sensing technology into practice, e.g. the implementation of information systems. It outlines at selected examples, how remote sensing based results can be transferred to the workplace of professionals also beyond science.

Intended learning outcomes

The lecture gives a broad overview about the applications of remote sensing. The participants will learn how the different disciplines of environmental sciences and studies utilize the potentials of active and passive sensors for quantification and assessment.

Courses (type, number of weekly contact hours, language — if other than German)

V (2)

Module taught in: English

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)

written examination (approx. 45 minutes)

Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)

Allocation of places

--

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)



Module	Module title Abbreviation					
Scienti	fic Pub	lishing and Writing in Ea	rth Observation		04-GEO-TB3-242-m01	
Module	e coord	inator		Module offered by		
-				Institute of Geograp	ohy and Geology	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	(not)	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ıct hours, language –	- if other than Germa	an)	
V (2)	_					
Module	e taugh	t in: English				
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-	
Langua	ige of a	pprox. 15 pages) ssessment: English or Go le, decide to hold assess	erman (assessment w ment in German)	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
referred to in the OT (examination regulations for teaching-degree programmes)						
Module	Module appears in					
	keinem Studiengang zugeordnet					
Remen	kemem staatengang zageoranet					



Modul	e title				Abbreviation
Histori	ical Urb	oan Analysis			04-GEO-URB10-242-m01
Modul	e coord	linator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade	<u></u>		
Duratio	on	Module level	Other prerequisites		
1 seme	ester				
Conter	nts		,		
Intend	ed lear	ning outcomes			
Course	es (type	e, number of weekly conta	ct hours, language –	if other than Germa	n)
S (1) +	Ü (1)				
Modul	e taugh	nt in: English			
		sessment (type, scope, la ion on whether module c			tion offered — if not every seme-
b) prep c) writt Langua where	paring a ten exa age of a possib	le, decide to hold assess	s total) or utes) erman (assessment w	vill be held in English	ı; in addition, the examiner may,
Allocat	tion of	places			
Additio	onal inf	formation			
Worklo	oad				
150 h					
T- 11					
reachi	ing cyc	le			
	ing cyc	le			
		LPOI (examination regu	lations for teaching-c	legree programmes)	
			lations for teaching-c	degree programmes)	
Referre		LPOI (examination regu	lations for teaching-c	legree programmes)	



Module title Abbreviation							
Applied	d Progr	amming for Urban Analy	tics		04-GEO-URB11-242-m01		
Module	e coord	inator		Module offered by	<u> </u>		
				Institute of Geograp	ohy and Geology		
ECTS	Meth	od of grading	Only after succ. con		,		
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster						
Conten	ts						
Intende	ed lear	ning outcomes					
-							
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)		
S (1) + I	Ü (1)						
Module	e taugh	t in: English					
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-		
b) prep c) writt Langua	aring a en exa age of a	on (approx. 30 minutes) on poster (approx. 10 hours mination (approx. 45 minussessment: English or Gele, decide to hold assessi	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,		
Allocat	ion of	places					
	-						
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Referre	ed to in	LPO I (examination regu	lations for teaching-o	degree programmes)			
				. <u> </u>			
Module	e appea	ars in					
	keinem Studiengang zugeordnet						



Module	e title				Abbreviation
Remote Sensing of Urban Areas					04-GEO-URB12-242-m01
Module	e coord	inator		Module offered by	
	-			Institute of Geograp	hy and Geology
ECTS	Metho	od of grading	Only after succ. com		ony and decitogy
5		rical grade		1 ,,	
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	its				
Intend	ed lear	ning outcomes			
Course	s (tvpe	, number of weekly conta	ct hours, language —	- if other than Germa	ın)
S (1) +		,			***
		t in: English			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
b) prep c) writt Langua	aring a en exa age of a	on (approx. 30 minutes) on poster (approx. 10 hours mination (approx. 45 minussessment: English or Gele, decide to hold assessi	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,
Allocat	ion of	places			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cvcl	e			
	3 2,30	-			
Referre	ed to in	LPO I (examination regu	lations for teaching-o	degree programmes)	
			Tations for teaching t	acaree programmes)	
Module	anne	ars in			
		engang zugeordnet			



Module	Module title Abbreviation						
Global	to loca	l Earth Observation of Ur	banization		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		,		
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster						
Conten	ts						
Intende	ed lear	ning outcomes					
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	n)		
V (2)							
Module	e taugh	t in: English					
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-		
b) prep c) writte Langua	aring a en exa ge of a	on (approx. 30 minutes) on poster (approx. 10 hours mination (approx. 45 minusessment: English or Gele, decide to hold assess	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,		
Allocat	ion of p	places					
Additio	nal inf	ormation					
Worklo	ad						
150 h							
Teachi	ng cycl	e					
Referre	d to in	LPO I (examination regu	lations for teaching-o	degree programmes)			
		, U	U	, ,			
Module	e appea	ars in					
	keinem Studiengang zugeordnet						



Module title Abbreviation					
Risk an	nd Disa	ster Earth Observation			04-GEO-URB13-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Meth	od of grading	Only after succ. com		ony and ecology
5		rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts		,		
Intende	ed lear	ning outcomes			
Course	s (type	, number of weekly conta	ct hours, language –	· if other than Germa	ın)
S (1) + I					
Module	e taugh	t in: English			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
b) prep c) writt Langua	aring a en exa age of a	on (approx. 30 minutes) on poster (approx. 10 hours mination (approx. 45 minusessment: English or Gele, decide to hold assess	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,
Allocat	ion of	places			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regu	lations for teaching-c	degree programmes)	
				<u> </u>	
Module	e appea	ars in			
		engang zugeordnet			



Module	Module title Abbreviation					
OpenS	ource o	oding in Urban Earth Obs	servation		04-GEO-URB14-242-m01	
Module	e coord	inator		Module offered by		
				Institute of Geograp	ohv and Geology	
ECTS	Meth	od of grading	Only after succ. con		, , , , , , , , , , , , , , , , , , ,	
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster					
Conten	ts					
Intende	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	ın)	
S (1) + I	Ü (1)					
Module	e taugh	t in: English				
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-	
b) prep c) writt Langua	aring a en exa age of a	on (approx. 30 minutes) on poster (approx. 10 hours mination (approx. 45 minussessment: English or Gele, decide to hold assess	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,	
Allocat	ion of	places				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regu	lations for teaching-o	degree programmes)		
		,	U	, ,		
Module	e appea	ars in				
		engang zugeordnet				



Module	e title				Abbreviation
Earth Observation of urban morphology					04-GEO-URB15-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	phy and Geology
ECTS	Metho	od of grading	Only after succ. con		ony and decitogy
5		rical grade		, , ,	
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	its				
Intend	ed lear	ning outcomes			
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)
S (1) +		,			
		t in: English			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
b) prep c) writt Langua	oaring a en exa age of a	on (approx. 30 minutes) on (approx. 10 hours no hours no hours mination (approx. 45 minussessment: English or Gele, decide to hold assess	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,
Allocat	ion of	places			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	е			
		-			
Referre	ed to in	LPO I (examination regu	lations for teaching-	degree programmes)	
			Tations for teaching t	acaree programmes)	
Module	a anne	ars in			
		engang zugeordnet			



Modul	e title	-			Abbreviation
Urban remote sensing and socio-economy					04-GEO-URB16-242-m01
Module coordinator				Module offered by	
	c coord	macor		Institute of Geograp	nhy and Geology
ECTS	Metho	od of grading	Only after succ. con		ony and deology
5		rical grade		,	
Duratio	on	Module level	Other prerequisites		
1 seme	ester				
Conter	nts				
Intend	ed lear	ning outcomes			
Course	es (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)
S (1) +		•			
Modul	e taugh	t in: English			
		sessment (type, scope, la ion on whether module ca			ition offered — if not every seme-
b) prep c) writt Langua	oaring a ten exa age of a	n (approx. 30 minutes) o poster (approx. 10 hours mination (approx. 45 min ssessment: English or Ge e, decide to hold assessi	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,
Allocat	tion of	olaces			
Additio	onal inf	ormation			
Worklo	oad				
150 h					
Teachi	ing cycl	e			
	•				
Referre	ed to in	LPO I (examination regu	lations for teaching-	degree programmes)	
Modul	e appea	ars in			
keinen	n Studie	engang zugeordnet			



Modul	e title	-			Abbreviation
Urban-human interaction analysis					04-GEO-URB17-242-m01
Modul	e coord	inator		Module offered by	
				Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. con		,
5	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester				
Conte	nts				
Intend	ed lear	ning outcomes			
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)
S (1) +	Ü (1)				
Modul	e taugh	t in: English			
		sessment (type, scope, la ion on whether module c			ition offered — if not every seme-
b) prep c) writt Langua	paring a ten exa age of a	on (approx. 30 minutes) on (approx. 10 hours no	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,
Alloca	tion of	places			
Additio	onal inf	ormation			
Worklo	oad				
150 h					
Teachi	ing cycl	e			
	<u> </u>				
Referre	ed to in	LPO I (examination regu	lations for teaching-	degree programmes)	
Modul	e appea	ars in			
		engang zugeordnet			



Module	e title				Abbreviation
Urban	Remote	Sensing			04-GEO-URB2-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	hy and Geology
ECTS	Metho	od of grading	Only after succ. com		ony and decitogy
5		rical grade		1 ,,	
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	its				
Intend	ed lear	ning outcomes			
Course	s (type	, number of weekly conta	ct hours, language —	- if other than Germa	n)
S (1) +		, , , , , , , , , , , , , , , , , , , ,	, 00		,
		t in: English			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
b) prep c) writt Langua	aring a en exa age of a	on (approx. 30 minutes) on poster (approx. 10 hours mination (approx. 45 minussessment: English or Gele, decide to hold assessi	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,
Allocat	ion of	places			
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cvcl	e			
	<u> </u>				
Referre	ed to in	LPO I (examination regu	lations for teaching-o	degree programmes)	
Module	e annea	ars in			
		engang zugeordnet			



Module	e title				Abbreviation
Urban Classification Approaches					04-GEO-URB3-242-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	phy and Geology
ECTS	Metho	od of grading	Only after succ. com		ony and desiresy
5		rical grade		, , ,	
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	its				
Intend	ed lear	ning outcomes			
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	ın)
S (1) +		,			
		t in: English			
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
b) prep c) writt Langua	oaring a en exa age of a	on (approx. 30 minutes) on poster (approx. 10 hours mination (approx. 45 minussessment: English or Gele, decide to hold assessi	s total) or utes) erman (assessment w	vill be held in English	n; in addition, the examiner may,
Allocat	ion of	places	· · · · · · · · · · · · · · · · · · ·		
Additio	nal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	е			
Referre	ed to in	LPO I (examination regu	lations for teaching-o	legree programmes)	
			Tations for teaching t	2001 Programmes)	
Module	e annes	ars in			
		engang zugeordnet			



From Urban Fieldwork to Analysis Module coordinator Institute of Geography and Geolog ECTS Method of grading Only after succ. compl. of module(s) numerical grade Duration Module level Other prerequisites						
Institute of Geography and Geolog ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade	gy					
Institute of Geography and Geolog ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade	gy					
ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade	<u>sy</u>					
5 numerical grade						
 						
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 — ster, information on whether module can be chosen to earn a bonus)	if not every seme-					
 a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) Language of assessment: English or German (assessment will be held in English; in addition, twhere possible, decide to hold assessment in German) 	the examiner 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						
keinem Studiengang zugeordnet						



Module title					Abbreviation
Global Urbanization					04-GEO-URB5-242-m01
Module coordinator				Module offered by	
				Institute of Geography and Geology	
ECTS	TS Method of grading Only after succ		Only after succ. com		, , , <u>0</u> ,
5		rical grade			
Duration Module level		Other prerequisites			
1 semester					
Conter	its		,		
Intend	ed lear	ning outcomes			
			-		
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)
S (1) +					
Modul	e taugh	t in: English			
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)					
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)					
Allocation of places					
Additio	onal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in			
		engang zugeordnet			



Module title					Abbreviation	
Geo-computation in Urban Analysis					04-GEO-URB6-242-m01	
Module coordinator				Module offered by		
				Institute of Geograp	ohv and Geology	
ECTS				,		
5	nume	rical grade				
Duration Module level Other prerequisite						
1 semester						
Conten	ts		,			
Intende	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	ın)	
S (1) + I	Ü (1)					
Module	e taugh	t in: English				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)						
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)						
Allocation of places						
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	ars in				
	keinem Studiengang zugeordnet					



Module title				Abbreviation		
Urban Geography					04-GEO-URB7-242-m01	
Module coordinator				Module offered by		
				•	phy and Geology	
ECTS	TS Method of grading Only after succ.		Only after succ. com	Institute of Geography and Geology		
5		rical grade				
Duration Module level		Other prerequisites				
1 semester						
Conten	its					
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)	
S (1) +		,	, , ,			
		t in: English				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)						
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)						
Allocation of places						
Additio	nal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
		engang zugeordnet				



Module title					Abbreviation	
Geo-Linguistics within Earth Observation					04-GEO-URB8-242-m01	
Module coordinator				Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS				, <u> </u>		
5	nume	rical grade				
Duration Module level		Module level	Other prerequisites			
1 seme	1 semester		_[
Conter	ıts					
Intend	ed lear	ning outcomes				
Course	s (type	, number of weekly conta	ict hours, language –	- if other than Germa	n)	
S (1) +						
		t in: English				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)						
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)						
Allocation of places						
Additio	onal inf	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
		engang zugeordnet				



Module title				Abbreviation		
Urban Field Data Acquisition					04-GEO-URB9-242-m01	
Module coordinator				Module offered by		
				Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. con	fter succ. compl. of module(s)		
5	nume	rical grade				
Duration Module level Other prerec		Other prerequisites	quisites			
1 semester						
Conte	nts					
Intend	ed lear	ning outcomes				
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)	
S (1) +	Ü (1)					
Modul	e taugh	t in: English				
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-	
a) presentation (approx. 30 minutes) or b) preparing a poster (approx. 10 hours total) or c) written examination (approx. 45 minutes) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)						
Allocation of places						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
		engang zugeordnet				