Study plan - Master's degree programme M.Sc. Climate & Environmental Sciences

Module	Course	SWS				Total ECTS	Workload distribution per semester in ECTS[1)]				mein campus	Specification graded/non-graded examination	Factor grade
		L	E	P	S		1. Sem.	2. Sem.	3. Sem.	4. Sem.			
Compulsory Modules													
Scientific Working I	Scientific Writing and Communication				2	**5**	5				6001	Weekly assignment	**0**
Scientific Working II	Graduate Seminar				2	**5**		5			6002	Written paper (20-30 pages), 60 %, with oral presentation (45 min.), 40 %	**1**
RTC: Advanced Research Training Course	Advanced Research Training Course				4	**20**		10	10		6021	Research report (20-30 pages), 60 %, with oral presentation (30 min.), 40 %	**1**
Inter-/Transdisciplinary Perspectives [2)]	Elective Module Courses	According to examination regulations of the elective modules				**10**	5				According to elective module	According to examination regulations of the elective modules	**0**
	Elective Module Courses	According to examination regulations of the elective modules					5				According to elective module		
Advanced Regional Geography I	Graduate Seminar				2	**5**		5			6031	Written paper (20-30 pages), 60 %, with oral presentation (45 min.), 40 %	**1**
Advanced Regional Geography II	Field Trip (min. 10 days)				10 days	**10**			10		6032	Report (10-15 pages)	**1**
					10	**55**	**15**	**20**	**20**	**0**			

Elective Modules [1) 3) 4)]													
Advanced Methods A	Depending on module				2	**5**		5			1750	Depending on module	**1**
Advanced Methods B	Depending on module				2	**5**			5		1750	Depending on module	**1**
Advanced Methods C	Depending on module				2	**5**			5		1760	Depending on module	**0**
					6	**15**	**0**	**5**	**10**	**0**			

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Consolidation Modules - Emphasis on Climate Research [1]											**1800**		
Advanced Methods: Advanced Climate Data Analysis	Advanced Climate Data Analysis				2	**5**	5				6080	Weekly Assignment (Problem-solving issues within the broader context of Climate Data Analysis, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Modeling Physical Systems in the Climate	Modeling Physical Systems in the Climate				2	**5**	5				6085	Weekly Assignment (Problem-solving issues within the broader context of Modeling Physical Systems in the Climate, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Scripting for Remote Sensing of the Environment	Scripting for Remote Sensing of the Environment				2	**5**	5				6090	Weekly Assignment (Problem-solving issues within the broader context of Scripting for Remote Sensing, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Tree-Ring Analysis - Applied Dendroecology	Tree-Ring Analysis – Applied Dendroecology				2	**5**		5			6095	Weekly Assignment (Problem-solving issues within the broader context of Tree-Ring Analysis, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
MT: Master Thesis	Master Thesis					**30**				25		Master Thesis (ca. 80 pages), 100 % and oral defence (ca. 30 Min.), 0 %	**2**
	Master Thesis Defence									5			
					8	**50**	**15**	**5**	**0**	**30**			

Consolidation Modules - Emphasis on Geoinformatics [1]											**1810**		
Advanced Methods: Microwave Remote Sensing	Microwave Remote Sensing				2	5	5				6110	Weekly Assignment (Problem-solving issues within the broader context of Microwave Remote Sensing, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Scripting for GIS analysis	Scripting for GIS Analysis				2	5	5				6115	Weekly Assignment (Problem-solving issues within the broader context of Scripting for GIS, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Scripting for Remote Sensing of the Environment	Scripting for Remote Sensing of the Environment				2	5	5				6090	Weekly Assignment (Problem-solving issues within the broader context of Scripting for Remote Sensing, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Remote Sensing: Spectroscopy and Analysis of Spectral Data	Remote Sensing: Spectroscopy and Analysis of Spectral Data				2	5		5			6120	Weekly Assignment (Problem-solving issues within the broader context of Spectroscopy and Analysis of Spectral Data, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
MT: Master Thesis	Master Thesis					**30**				25		Master Thesis (ca. 80 pages), 100 % and oral defence (ca. 30 Min.), 0 %	**2**
	Master Thesis Defence									5			
					8	**50**	**15**	**5**	**0**	**30**			

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Consolidation Modules - Environmental Analysis [1]											**1820**		
Advanced Methods: Soil Science	Soil Science				2	5	5				6125	Weekly Assignment (Problem-solving issues within the broader context of Soil Science, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Tree-Ring Analysis - Applied Dendroecology	Tree-Ring Analysis – Applied Dendroecology				2	5	5				6095	Weekly Assignment (Problem-solving issues within the broader context of Tree-Ring Analysis, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Stable Isotope Analysis	Stable Isotope Analysis				2	5	5				6130	Weekly Assignment (Problem-solving issues within the broader context of Stabile Isotope Analysis, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
Advanced Methods: Remote Sensing: Spectroscopy and Analysis of Spectral Data	Remote Sensing: Spectroscopy and Analysis of Spectral Data				2	5		5			6120	Weekly Assignment (Problem-solving issues within the broader context of Spectroscopy and Analysis of Spectral Data, max. 3 pages weekly) or written paper (max. 15 pages) [5]	**1**
MT: Master Thesis	Master Thesis					**30**				25		Master Thesis (ca. 80 pages), 100 % and oral defence (ca. 30 Min.), 0 %	**2**
	Master Thesis Defence									5			
					8	**50**	**15**	**5**	**0**	**30**			
Total					**24**	**120**	**30**	**30**	**30**	**30**			

1) The specified distribution constitutes a recommendation only.
2) Selection from among the range of modules offered by the Faculty of Sciences and the Faculty of Engineering.
3) Selection from among modules that are not part of the chosen area of specialisation (consolidation modules). The range of elective modules is extendable.
4) The ungraded module can be replaced by an internship of at least six weeks.
5) The specific nature of examination depends on the particular nature of the course held in the particular semester. The specific nature of examination will be announced in the module handbook at the beginning of each semester.