GEW-MF21 Advance	ed Petrology a	nd Age Determina	ation	Number of credit points (LP): 12	
Module type	Elective module				
(mandatory or					
elective module)					
Contents and	Contents				
qualification	In-depth and comprehensive treatment of orogenic processes, metamorphic and magmatic processes				
objectives of the module	and petrology of crystalline rocks, using geological maps, chemical analysis and dating methods. Indepth and applied treatment of geochronology: in situ methods, laser ablation, isotope analysis and mass spectrometry, data interpretation, calculation and interpretation of isotope data.				
	Qualification goals Students				
	- gain the ability to collect observations from the field and from laboratory analyses and transfer them to models				
	- learn the professional and practical use of age determination methods				
	are able to analyze and interpret the data they have collected and transfer them to geoscientific				
	models in order to understand processes in the Earth system on different length and time scales				
	An examination of the following forms:				
(number, form,	Oral exam, 30-45 minutes				
scope)	Report, max. 25 pages				
Self-learning time	Portfolio examination, presentation (20 min) and accompanying report (max. 20 pages) 240				
(in time hours)	2TV				
(iii tiiiie iiours)					
, G ,			Secondary examination		Partial module examination accompanying the course
		semester hours)	(number, form, scope)		
			For the	For admission to	(number, form, scope)
			completion of	the module	
			the module	examination	
Lecture and exercise I (lecture and exercise)		2V+2T	_	-	-
		2V+2T	-	-	-
(lecture and exercise)					
Frequency			Winter semester (V+T I) and summer semester (V+T II)		
Prerequisite for participation in the module			None		
Teaching unit(s)			Geosciences		
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