GEW-MC02 Tectonics and Geodynamics			Number of credit points (LP): 6			
Module type	Elective module					
(mandatory or						
elective module)						
Contents and	Contents					
qualification	This module aims to familiarize students with current ideas about the structure and mechanical					
objectives of the module	behavior of the lithosphere, in terms of its thermal structure and rheology. The forces driving pla tectonics, the rheology of the lithosphere, the dynamics of orogenic processes and numerical modeling of lithospheric deformation, and the couplings of mantle dynamics and surface process are covered.					
	Qualification goals					
	Students					
		gain an understanding of the structure and dynamics of the lithosphere and the forces that drive its deformation				
	- gain familiarity with modern quantitative methods for observing and modeling the deformation of					
	the lithosphere and its driving forces					
	- learn to analyze modern research questions in tectonics and geodynamics by studying the					
	literature on a chosen topic					
Module examination	An examination of the following forms:					
(number, form,	Portfolio examination, consisting of: Report (10-12 pages) and associated presentation (10-15					
scope)	ope) minutes) on a chosen topic.					
		ral exam, 30 minutes				
	Written exam, 90 minutes					
Self-learning time	120					
(in time hours)						
			Secondary examination		Partial module examination	
		semester hours)	(number, form, scope)		accompanying the course	
		For the	For admission to the	(number, form, scope)		
			completion of	module examination		
			the module			
Lecture and exercise (lecture and 2V+2T		-	Exercises (80%)	-		
exercise)						
Frequency			Winter semester			
Prerequisite for participation in the module			None			
Teaching unit(s)			Geosciences			