

GEW-MC05 Theoretical Geophysics		Number of credit points (LP): 6					
Module type (mandatory or elective module)	Core module						
Contents and qualification objectives of the module	<p>Contents In-depth theoretical foundations of important areas of geophysics such as elastic wave propagation, seismic source processes, potential theory, electromagnetism, and concepts, methods, and instruments based on these.</p> <p>Qualification goals Students</p> <ul style="list-style-type: none"> - acquire in-depth knowledge of theory building processes and theoretical concepts from important subfields of geophysics - can apply methods of theoretical physics to tasks from important subfields of geophysics 						
Module examination (number, form, scope)	An examination of the following forms: Written exam, 90 minutes Oral exam, 30 minutes Term paper, 20 pages						
Self-learning time (in time hours)	120						
Events (teaching forms)		Contact time (in semester hours)	Secondary examination (number, form, scope)	Partial module examination accompanying the course (number, form, scope)			
Lecture and exercise (lecture and exercise)		2V+2T	For the completion of the module	For admission to the module examination			
Frequency	Winter semester						
Prerequisite for participation in the module	None						
Teaching unit(s)	Geosciences						