

Module description

Module	e 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 Geography and Geology		
ECTS Method of grading		Only after succ. compl. of module(s)				
5		rical grade				
Duration		Module level	Other prerequisites			
1 semester		graduate				
Contents						
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. Intended learning outcomes						
Introduction to programming and geostatistics for environmental data analysis.						
Courses (type, number of weekly contact hours, language — if other than German)						
Ü (4) Module taught in: English						
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for 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						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master	Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

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