

Module title		Abbreviation
Introduction to Programming and Geostatistics		04-GEO-MB2-162-m01
Module coordinator		Module offered by
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
<p>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.</p>		
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 (2) 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)		
<p>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</p>		
Allocation of places		
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Additional information		
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Workload		
150 h		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016)		