

Module title					Abbreviation
Introduction to Spatial Data Analysis Software					04-GEO-MB1-242-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					
Ine module comprises the following practical topics: Managing and geoprocessing of raster and vector data in- cluding digitization and analysis/ visualization of geodata / preprocessing of optical remote sensing data (geo- metric and atmospheric corrections, dimension reduction) / different approaches, algorithms, sampling and va- lidation strategies for validation / change detection, vegetation indices / basics in the derivation of geophysical and biophysical parameters (e.g. LAI, FAPAR, Chlorophyll content of leafs, Land Surface Temperature, Surface Al- bedo					
Intended learning outcomes					
The seminar aims at improving the methodological skills of the participants in digital image processing and the use of Geographical Information Systems.					
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)					
 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's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2024)					

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