

Module title		Abbreviation
Cloud Computing in Remote Sensing		04-GEO-MET5-212-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		
Google Earth Engine is a cloud-based geospatial processing platform allowing for planetary-scale analysis. Next to a large amount of raw processing power provided by Google's computational infrastructure, Earth Engine offers a rich data catalog which stores several petabytes of publically available and analysis ready geospatial data sets. Topics covered are vector and raster data manipulation, working with ImageCollections, time-series analysis, classification, iteration, visualization and animation of spatial data.		
Intended learning outcomes		
Students will be introduced to the platform and gain fundamental knowledge about the usage of Google Earth Engines processing power and data offer.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (1) + Ü (1) 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) Assessment offered: Once a year, summer semester creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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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) (2021)		