Module title			Abbreviation
Active Remote Sensing Systems			04-GEO-MET8-212-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

Methodological and technical basics of active remote sensing systems, e.g. LiDAR and SAR, are presented. The basics of data collection, processing and interpretation will be discussed and demonstrated on selected case studies. Using example datasets, the processing of active remote sensing data using appropriate software will be demonstrated and practiced.

Intended learning outcomes

In this course, students learn about the functional principle, basics of data processing and possible applications of selected active remote sensing systems. The strengths and limitations of the respective methods will be explained and discussed.

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)
Assessment offered: Once a year, summer semester
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

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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) (2021)