Module title			Abbreviation
Advanced Earth Observation Analysis			04-GEO-MET3-212-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

The course will provide advanced and current approaches in the processing, interpretation, and application of Earth observation data from variety of sensors and missions. The concepts presented, e.g. fusion of multi-sensor data, are based on the current state of the art. Approaches and concepts will be presented and discussed in detail using selected case studies and/or example data sets.

Intended learning outcomes

In this course, students deepen their knowledge in the processing and application of Earth observation data while learning advanced methods of remote sensing analysis. In addition, students learn about the state of the art in research through intensive discussion of current scientific studies.

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)