Module title: Active Remote Sensing Systems

Abbreviation: 04-GEO-MET8-212-m01

Module coordinator: holder of the Professorship of Remote Sensing

Module offered by: Institute of Geography and Geology

ECTS: 5

Method of grading: numerical grade

Duration: 1 semester

Module level: graduate

Other prerequisites: --

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:
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Module taught in: English

Method of assessment:
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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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)