### Module title

**Advanced Earth Observation Analysis**

### Abbreviation

04-GEO-MET3-212-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

### Only after succ. compl. of module(s)

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### Duration

1 semester

### Module level

graduate

### Other prerequisites

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### Contents

The course will provide advanced and current approaches in the processing, interpretation, and application of Earth observation data from a 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

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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)