Introduction to Programming and Statistics for Remote Sensing and GIS

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
Theoretical basics and practical examples of programming and geostatistics focused on application within Remote Sensing and GIS are provided. Basic functionality such as script structure, implementation, functions, loops as well as programming syntax using the R language are introduced. Moreover, statistical basics related to environmental analysis are covered such as Random Forest or spatial queries.

Intended learning outcomes
Introduction to programming and geostatistics for environmental data analysis.

Courses
Ü (4)
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)

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

Additional information

Referred to in LPO I
(examination regulations for teaching-degree programmes)

Module appears in
Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018)

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