Module title
Dynamics of the land surfaces

Abbreviation
09-RELA2-102-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 module focuses on the remote sensing acquisition of land coverage and the temporal change (inter and intraannual vegetation dynamics) from a subcontinental up to a global scale. The gained knowledge about dynamics of the land surface will be consolidated on the basis of issues about the climate change (interaction of land surface with the atmosphere), the sustainable land and water management, the land degradation and desertification as well as the biodiversity research. Methodologically, the focus will be on the multitemporal derivation and evaluation of geo and biophysical parameters, remote sensing quantification of flow of substances on Earth’s surface (CO2, energy balance) and on scale transitions.

Intended learning outcomes
Students acquire methodological and advanced content-related competencies in order to be able to acquire and evaluate dynamics of the land surface from different perspectives. Thanks to the type and complexity of the precisely selected current issues of global change, interdisciplinary approaches and strategies will be encouraged.

Courses
(No information on SWS (weekly contact hours) and course language available)

Method of assessment
(project report (approx. 20 pages) or poster
Language of assessment: German, English

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 Physical Geography (2013)
Master’s degree (1 major) Applied Physical Geography (2010)