

<b>Module title</b>		<b>Abbreviation</b>
Introduction to Remote Sensing and Geoanalysis		04-GEO-TB1-162-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Professorship of Remote Sensing		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	graduate	--
<b>Contents</b>		
<p>The lecture "Introduction to Remote Sensing" ensures that participants will gain a solid understanding of the following topics: the role of remote sensing in nowadays world / basics of electromagnetic radiation / history of remote sensing and image acquisition platforms / satellite orbits and orbit geometry / current spaceborne sensors / impacts of the atmosphere / geocorrection of digital imagery / radiometric correction of digital images / principles of image classifications / time series and big data / geodata concepts / geodata standards / geodata visualization / the job market for remote sensing and geo IT specialists</p>		
<b>Intended learning outcomes</b>		
<p>The lecture provides participants with a solid and comprehensive theoretical background of the background and physical principles of remote sensing, gives an introduction into digital image processing, as well as geodata concepts, standards and future developments</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
<p>written examination (approx. 45 minutes) 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)</p>		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
<p>Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2016) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2018) Master's degree (1 major) Applied Earth Observation and Geoanalysis (EAGLE) (2021)</p>		