

Module title					Abbreviation
Algorithms for Geographic Information Systems					10-l=AGIS-102-m01
Module coordinator				Module offered by	
holder of the Chair of Computer Science I				Institute of Computer Science	
ECTS Method of grading		Only after succ. compl. of module(s)			
5 nume		rical grade			
Duration		Module level	Other prerequisites		
1 semester		graduate	Where applicable, prerequisites as specified by the lecturer at the begin- ning of the course (e.g. completion of exercises).		
Contents					
Algorithmic foundations of geographic information systems and their application in selected problems of acqui- sition, processing, analysis and presentation of spatial information. Processes of discrete and continuous opti- misation. Applications such as the creation of digital height models, working with GPS trajectories, tasks of spa- tial planning as well as cartographic generalisation.					
Intended learning outcomes					
The students are able to formalise algorithmic problems in the field of geographic information systems as well as to select and improve suitable approaches to solving these problems.					
Courses (type, number of weekly contact hours, language — if other than German)					
V + Ü (no information on SWS (weekly contact hours) and course language available)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examina- tion date, the written examination can be replaced by an oral examination of one candidate each or an oral ex- amination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes) Language of assessment: German, English if agreed upon with the examiner					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Computer Science (2010)					
Master's degree (1 major) Mathematics (2012)					
Master's degree (1 major) Mathematics (2010)					
Master's degree (1 major) Computational Mathematics (2012)					
rist state examination for the teaching degree Gymnasium Computer Science (2009)					

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