

Module description

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Module title					Abbreviation	
Computational Complexity 10-I=KT-212-m01						
Module coordinator				Module offered by		
holder of the Chair of Computer Science I				Institute of Computer Science		
ECTS	CTS Method of grading		Only after succ. compl. of module(s)			
5	nume	rical grade		-		
Duration		Module level	Other prerequisites	Other prerequisites		
1 semester		graduate				
Contents						
Properties of NP-complete sets, autoreducibility, interactive proof systems, polynomial time hierarchy, complexity of probabilistic algorithms. Intended learning outcomes						
The students possess a fundamental and applicable knowledge in the areas of properties of NP-complete sets, autoreducibility, interactive proof systems, polynomial time hierarchies, complexity of probabilistic algorithms.						
Courses (type, number of weekly contact hours, language — if other than German)						
V (2) + Ü (2)						
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. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Separate written examination for Master's students Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the following semester creditable for bonus						
Allocation of places						
Additional information						
Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): AT,IT,KI,ES,GE						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						

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Master's degree (1 major) Computer Science (2021)