

Module title					Abbreviation
Advanced Topics in Computational Complexity					10-l=KT2-102-m01
Module coordinator				Module offered by	
Dean of Studies Informatik (Computer So			Science)	Institute of Computer Science	
ECTS	5 Method of grading		Only after succ. compl. of module(s)		
8 numerical 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					
Properties of NP-complete sets, autoreducibility, interactive proof systems, polynomial time hierarchy, complexi- ty 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 + 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. 80 to 90 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. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examina- tion of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3. 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 (2010) Master's degree (1 major) Computational Mathematics (2012)					

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