Onli	ne Problem	s				AR-316
Rota Duration		Semester	sws	Credit Points	Workload	
annually WS 1 Semester		3 rd (Semester)	3 SWS	5	150 h	
1	Modul Structure					
	Course (Abbreviation)		Type/ SWS	Presence	Self Study	Credit Points
	a) Online Pro	blems	Lecture/ 2 SWS	25 h	65 h	3
	b) Online Problems		Tutorial/ 2 SWS	10 h	50 h	2
2	Language English					
3	Content 1. Competitive Analysis 2. Randomized Algorithms 3. Deterministic Algorithms 4. Game-Theoretic Foundations 5. Request-Answer Games					
	Literature: • Allan E Univer	COMPETITIVE ANA	ALYSIS. Cambridge			
4	Competencies The students identify online problems and their characteristics. They are able to apply suitable methods to find algorithmic solutions. They can evaluate approaches with respect to efficiency, performance and complexity. They know how to design new online algorithms based on the knowledge acquired during the lecture.					
5						
	Oral exam (40 min)					
6	Formality of Examination					
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7	Module Requirements (Prerequisites)					
8	Recommended: knowledge in discrete mathematics and foundations of algorithms Allocation to Curriculum:					
0	Program: Automation & Robotics, Field of study: Robotics, Cognitive Systems					
9						