

Module title		Abbreviation
Control Principles of Modern Communication Systems		10-I-SKS-191-m01
Module coordinator		Module offered by
holder of the Chair of Computer Science III		Institute of Computer Science
ECTS	Method of grading	Only after succ. compl. of module(s)
8	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<ul style="list-style-type: none"> <li>• Control Mechanisms of Modern Communication Systems</li> <li>• Multimedia Networking</li> <li>• Broadband Access Networks</li> <li>• Mobile Communication Systems</li> <li>• Home Access Networks</li> <li>• Current trends such as Internet of Things (IoT)</li> <li>• Software Defined Networking (SDN)</li> <li>• Control mechanisms implemented and deployed on the Internet</li> <li>• Introduction of analytical performance evaluation</li> </ul>		
Intended learning outcomes		
The students possess advanced knowledge regarding the structure, architecture and control mechanisms of modern communication systems and are able to apply it to evaluate systems and protocols within simulations and measurement setups. In addition, students have gathered insights of the basic methodologies in the field of analytical performance evaluation.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (4) + 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)		
<p>written examination (approx. 60 to 120 minutes).</p> <p>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).</p> <p>Language of assessment: German and/or English</p> <p>creditable for bonus</p>		
Allocation of places		
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Additional information		
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Workload		
240 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
<p>Bachelor's degree (1 major) Computer Science (2019)</p> <p>Bachelor's degree (1 major) Aerospace Computer Science (2020)</p> <p>Bachelor's degree (1 major) Artificial Intelligence and Data Science (2022)</p>		

Bachelor's degree (1 major) Artificial Intelligence and Data Science (2023)  
Bachelor's degree (1 major) Mathematics (2023)