

Module title					Abbreviation
Selected Topics in Internet Technologies 10-I=AKIT-232-mo1					
Module coordinator				Module offered by	
holder of the Chair of Computer Scienc			e III Institute of Computer Science		
ECTS Method of grading		Only after succ. compl. of module(s)			
5 numerical grade					
Duration I		Module level	Other prerequisites		
1 semester		graduate			
Contents					
Selected topics in computer communication, for example design aspects of future internet structures: setup and control structures of the internet, multicast protocols, protocols for multimedia communication, optical net- works, control mechanisms for redundant and real-time communication networks, p2p networks, ad-hoc net- works, or new concepts and technologies in mobile communication: digital modulation, signal propagation, channel coding, modern transmission technologies (adaptive modulation and coding, hybrid ARQ, OFDM, MI- MO), mac layer, mobileIP, routing in ad-hoc networks, vertical handover, UMTS IP multimedia subsystem, or planning and management methods in telecommunication networks: planning methods (forward engineering, reverse engineering), network management paradigms (central and decentral), framework for network manage- ment (IETF traffic engineering, ITU-T TMN, OSI management), planning and management methods (IP manage- ment mechanisms, network design, measurement, acquisition and evaluation of traffic and performance data, visualisation, result handling, simulation and analysis of networks), management tools, outlook and perspecti- ves, or other current topics.					
and wireless communication systems.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (2) + Ü (2)					
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
<ul> <li>a) written examination (approx. 60 to 120 minutes) or</li> <li>b) practical project (project documentation (approx. 20 pages) with presentation (30 to 45 minutes) and subsequent discussion on the topic) or</li> <li>c) oral examination of one candidate each (approx. 20 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)</li> <li>Language of assessment: German and/or English creditable for bonus</li> </ul>					
Allocation of places					
Additional information					
Focuses available for students of the Master's programme Informatik (Computer Science, 120 ECTS credits): IT.					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in			
Module studies (Master) Computer Science (2019)					

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## Module description

Master's degree (1 major) Computer Science (2023) Master's degree (1 major) Aerospace Computer Science (2023)

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