Module title			Abbreviation
Interactive Systems 1			10-MCS-IS1-152-m01
Module coordinator		**Module offered by**	
holder of the Chair of Computer Science IX		Institute of Computer Science	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

The module teaches basic requirements, concepts and practical solutions in the field of interactive systems. A special focus is on systems for the realization of human-computer interaction, in which user and computer form a common system in a closed input-output loop and requirements of different degrees of reactivity up to real-time are crucial. Possible examples include classical graphical interfaces, web-based solutions, and virtual and augmented reality systems.

Intended learning outcomes

After participating in the module courses, students are able to identify basic capabilities and properties of today's computer systems with regard to their interactivity and to derive technical measures for their realization. Students will be able to select and evaluate suitable solution approaches and tools for tasks in the field of interactive systems development. Furthermore, students are able to develop alternative approaches for future interactive systems.

Courses (type, number of weekly contact hours, language — if other than German)

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Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems:
a) written examination (approx. 90 minutes) or
b) presentation (approx. 20 minutes) and handout (approx. 5 pages) or
c) presentation of project results (approx. 30 minutes) or
d) presentation (approx. 45 minutes) or
e) oral examination of one candidate each (approx. 30 minutes) or
f) term paper (approx. 10 pages)
Language of assessment: German and/or English
creditable for bonus

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

Teaching cycle: every semester

Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor's degree (1 major) Human-Computer Systems (2015)
Bachelor's degree (1 major) Human-Computer Systems (2016)

Bachelor's degree (1 major) Human-Computer Systems (2018)
Bachelor's degree (1 major) Human-Computer Systems (2022)