

<b>Module title</b>		<b>Abbreviation</b>
Foundations of Human-Computer-Systems and Cognitive Psychology		o6-MCS-GL-AP-152-mo1
<b>Module coordinator</b>		<b>Module offered by</b>
chairperson of examination committee of the Bachelor's degree programme Mensch-Computer-Systeme (Human-Computer Systems)		Institute of Human Computer Media
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
8	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
<p>The module provides a comprehensive insight into the contents and methods of human-computer interaction. The entire cycle consisting of design, implementation and evaluation of interactive computer systems is considered. Input/output processing techniques and important and typical interaction metaphors, from text-based input to graphical desktop applications to multimodal interfaces, are introduced and prominent evaluation methods are explained. The module provides insights into basic functioning of modern computer systems as well as basic human capabilities and limitations in cognition (perception, cognition, memory, attention, decision making) and physical ergonomics (anthropometry, biomechanics). Accompanying practical tasks in the exercise teach students typical methods of needs analysis, prototype development and evaluation.</p>		
<b>Intended learning outcomes</b>		
<p>After participating in the module courses, students have acquired basic professional skills. They remember specific methods and procedures. They are able to identify relevant use-cases and recognize possible issues and tasks and compare different solution options. They are able to solve first prototypical tasks, organize the solution process, implement the individual steps of the solution process, interpret and compare the results.</p>		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (2) + V (3) + Ü (1)		
<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)		
<p>written examination (approx. 120 minutes). 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). Language of assessment: German and/or English creditable for bonus</p>		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
240 h		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
<p>Bachelor' degree (1 major) Human-Computer Systems (2015) Bachelor' degree (1 major) Human-Computer Systems (2016) Bachelor' degree (1 major) Human-Computer Systems (2018) Bachelor' degree (1 major) Human-Computer Systems (2022)</p>		

