

Module title		Abbreviation
Specialisation Human Factors		o6-MCS-VHuFa-152-mo1
Module coordinator		Module offered by
holder of the Chair of Psychological Ergonomics		Institute of Human Computer Media
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>In this module, students are introduced to safety-critical and complex work areas in which human factors play a major role (e.g. aviation, acute medicine, traffic). For this purpose, (1) a work area with its specific requirements for the design of the human-machine interface is introduced, (2) current problems and research topics in this area are discussed and (3) possibilities and limits are discussed on applying HCI knowledge and research to solving problems in this domain. Excursions to safety-critical work places are also planned as part of the seminar.</p>		
Intended learning outcomes		
<p>After participating in this module, students will be able to assess how human-machine interfaces must be designed in context through insight and contacts in safety-critical socio-technical work areas. Furthermore, students will be able to analyze these interfaces from a safety-critical point of view and taking into account work area-specific features, and to incorporate these results into designs of new interfaces. The excursions offer an insight into fields in which internships or project and thesis work are relevant and also represent a potential professional field.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
S (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>Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems: a) written examination (approx. 90 minutes), b) presentation (approx. 20 minutes) and handout (approx. 5 pages), c) presentation of project results (approx. 30 minutes), d) presentation (approx. 45 minutes), 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</p>		
Allocation of places		
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Additional information		
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Workload		
150 h		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
<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>		