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| Module title | | Abbreviation |
| Introducing to Human-Computer-Interaction | | o6-MCI=Einf-141-mo1 |
| 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 | | |
| <p>Human-computer interaction is concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. This course gives an introduction to the principle biological, physiological, and psychological constraints as defined by the human user and relates these constraints to the conceptual and technical solutions of today's computer systems and existing as well as prospective interaction metaphors between humans and computers. The course covers topics in the area of human perception and cognition, memory and attention, the design of interactive systems, prominent evaluation methods, the principles of computer systems, typical input processing techniques, interface technology, and examples of typical interaction metaphors, from text-based input to graphical desktops to multimodal interfaces. Accompanying lab work will introduce students to typical tasks in this field, i. e. prominent evaluation methods and prototyping of interfaces.</p> | | |
| Intended learning outcomes | | |
| <p>At the end of the course, the students will have developed a broad understanding of the principles underlying the design of interfaces between human users and computer systems. They will understand the constraints and capabilities of current user interfaces, and they will have learned about the necessary steps involved in user-centred design and development approaches.</p> | | |
| Courses (type, number of weekly contact hours, language – if other than German) | | |
| V + Ü + S (no information on SWS (weekly contact hours) and course language available) | | |
| 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>as specified by the lecturer at the beginning of the course a) written examination (approx. 75 minutes) or b) presentation or presentation of project (approx. 20 minutes) with written elaboration or documentation (approx. 10 pages) or c) oral examination (approx. 30 minutes) Language of assessment: German, English</p> | | |
| Allocation of places | | |
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| Additional information | | |
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| Workload | | |
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| Teaching cycle | | |
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| Referred to in LPO I (examination regulations for teaching-degree programmes) | | |
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| Module appears in | | |
| Master's degree (1 major) Computer Science (2014) | | |