

Only the german version of the module description as part of the study regulations is legally binding.

Module name	Basics of human-computer interaction
Module number	INF-25-Ba-MCI
Responsible lecturer	Prof. Dr. Gerhard Weber gerhard.weber@tu-dresden.de
Qualification objectives	For the design of audio-visual application programs, students have the skills to design user interfaces for users in the broadest sense, to implement them in a programming language and to evaluate them with regard to usability and accessibility and can implement them in practice.
Content	The module covers the basic process of human-computer interaction for audio-visual media, in particular the user-centered design process, methods for carrying out context and task analysis and for determining user requirements, also taking assistive technologies into account. Further content includes interface, navigation and information on design for various devices and interaction technologies as well as their implementation in graphical user interfaces. Building on this, content includes the basic procedures for rating user interfaces, in particular heuristic and empirical procedures and methods for carrying out evaluations.
Teaching and learning methods	The module comprises lectures of 2 SWS, exercises of 2 SWS and the self-study. The language of instruction for the lectures and exercises is German.
Prerequisites for participation	No knowledge is required.
Applicability	The module is a compulsory module in the Diploma degree program in Computer Science in the foundation course. The module is a compulsory module in the Bachelor's degree course in Computer Science and in the Bachelor's degree course in Applied Computer Science. The module creates the prerequisites for the modules that name it among the prerequisites for participation.
Requirements for earning credit points	The credit points are earned if the module examination is passed. The module examination consists of a written examination lasting 90 minutes. A bonus achievement for the written examination is the completion of 15 hours of exercises alone. The examination language is German.
Credit points and grades	5 credit points can be earned through the module. The module grade corresponds to the grade of the examination.
Module frequency	The module is offered every winter semester.
Workload	The total workload is 150 hours.
Module duration	The module comprises one semester.

