

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

Module name	Engineering accessible media
Module number	INF-25-Ba-PMI-EBM
Responsible lecturer	Prof. Dr. Gerhard Weber gerhard.weber@tu-dresden.de
Qualification objectives	Students have the skills to design and develop information systems and can therefore design user interfaces, interaction and media to be barrier-free in the broadest sense . They are able to analyse, describe and programmatically implement the requirements of heterogeneous groups of users and can apply guidelines, methods and tools to create and evaluate accessibility and individualization concepts.
Content	The module covers the basics of accessible design of information systems and media for all people, with special consideration of the requirements of people with temporary, permanent or situational orary disabilities and older people. Further content includes legal principles, accessible software and web design, application of assistive technologies and specific methods in human-centred design, basic procedures for individualization and for the creation of accessible designs through adaptive and intelligent systems, basic techniques of user profiles, user modelling and adaptive user interfaces for special areas of application, for example multi-user applications, context-sensitive systems and adaptivity on the web, in voice interfaces and in classic input techniques.
Teaching and learning methods	The module comprises lectures of 2 SWS, exercises of 2 SWS and the self bststudium. The language of instruction for the lectures and exercises is German.
Prerequisites for participation	The competencies to be acquired in the modules INF-25-Ba-Prg Programming and RoboLab and INF-25-Ba-MCI Fundamentals of Human-Computer Interaction are assumed.
Applicability	The module is a compulsory module in the Bachelor's degree program in Applied Computer Science in the specialization Media Informatics. The module fulfills the prerequisites for the modules listed under 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 aben. 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 summer semester.
Workload	The total workload is 150 hours.

Module duration	The module comprises one semester.
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