

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

Module name	User Interface Engineering
Module number	INF-MI-VMI-UIE
Senior Lecturer	Prof. Dr. Raimund Dachzelt raimund.dachselt@tu-dresden.de
Qualification objectives	Students are familiar with the requirements and techniques for developing novel, natural user interfaces. In particular, they master scenario-based and user experience design techniques. Students are able to apply the concepts and techniques for the development of novel user interfaces in practice and in teamwork.
Contents	The content of the module is the development of novel, more natural user interfaces based, for example, on gesture or vision control, and the related requirements, development processes and HCI techniques, with a focus on scenario-based design and user experience design. Other content includes engineer-centred approaches and creative design phases. These phases include drawing up sketches and early prototypes.
Forms of teaching and learning	The module includes lectures of 2 SWS, exercises of 2 SWS and self-study. The language of the lectures and exercises will be English.
Eligibility for participation	No knowledge is required.
Usability	In the Master's in Media Informatics course, the module is a compulsory electoral module in the field of in-depth modules, which must be chosen in accordance with Section 27(3) of the Examination Regulations. The module cannot be chosen in the master's course in media informatics if this module, or a module with substantially the same content, from a course with which the entry conditions under § 3 of the Studienordnung have been met, has already been completed. The module provides the pre-requisites for the modules it designates under the pre-requisites for participation.
Conditions for the award of credits	Credits are awarded when the module test is passed. The module examination consists of a 90-minute off-the-shelf work and a 60-hour project work. Both audit services are relevant to success. The examination language for the away-day work and the project work will be English.
Credits and marks	The module allows 6 credit points to be obtained. The module score is the weighted average of the scores for each audit work. Time off work will be given a threefold weighting and project work a twofold weighting.
Frequency of the module	The module is offered every winter semester.
Workload	The total workload is 180 hours.

Duration of the module	The module includes a semester.
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