

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

Module name	Media and media flows
Module number	INF-25-Ba-PMI-MMS
Responsible lecturer	Prof. Dr. Raimund Dachzelt raimund.dachzelt@tu-dresden.de
Qualification objectives	Students master the basics of the structure, coding, recording and reproduction of digital media and their processing systems. Students know the properties, formats, methods for filtering, compression and processing of time-independent and time-dependent media and have practical experience in dealing with these.
Content	The module covers the basics of properties, formats and methods for filtering, compressing and processing time-independent and time-dependent digital media. This includes in particular natural color, pixel-based images, audio and video as well as other graphic formats such as 2D vector graphics. Other content includes complex media objects and description languages as well as mechanisms for integrating time-variant and other media.
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	In the Bachelor's degree program in Computer Science and in the Bachelor's degree program in Applied Computer Science, the competences to be acquired in the modules INF-25-Ba-Ma1 Linear Algebra and Analysis as well as in the module INF-25-Ba-Prg Programming and RoboLab, in particular solid programming experience, are a prerequisite.
Applicability	In the Bachelor's degree program in Computer Science, the module is a compulsory elective module of the specialization, which must be selected in accordance with the appendix to the examination regulations. In the Bachelor's degree course in Applied Computer Science, the module is a compulsory module in the specialization in Medical Informatics and a compulsory elective module in the specialization in Medical Informatics, which must be selected in accordance with the annex to the examination regulations. The module creates 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 and a portfolio of 60 hours. Both examinations are relevant for passing the module. The examination language for the written examination and the portfolio is German.
Credit points and grades	6 credit points can be earned through the module. The module grade is calculated from the weighted average of the grades of the individual examinations. The written examination is weighted twice and the

	portfolio is weighted once.
Module frequency	The module is offered every summer semester.
Workload	The total workload is 180 hours.
Module duration	The module comprises one semester.