

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

Module name	Software Management and Quality Assurance
Module number	INF-25-Ma-FSP-SMQS
Responsible lecturer	Prof. Dr. Uwe Aßmann uwe.assmann@tu-dresden.de
Qualification objectives	Students know the basic principles of project management of software systems in planning, implementation, quality assurance, estimation, process modeling and business modeling of software systems. They can classify and evaluate important basic techniques of software project management and quality assurance and use and adapt them for specific fields of application in the environment of software applications.
Content	The module covers the basics of software projects, software quality assurance, project planning and task estimation, the basics of different types of projects as well as agile and erweighting process models in project management.
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 may be German or English and will be determined by the lecturer at the beginning of each semester and announced in the usual manner.
Prerequisites for participation	In the Diploma degree program in Computer Science, in the Bachelor's degree program in Computer Science and in the Bachelor's degree program in Applied Computer Science with a specialization in Media Informatics, the competencies to be acquired in the modules INF-25-Ba-SWT Software Technology, INF-25-Ba-DMF Data Management Foundations, INF-25-Ba-SWTP Software Technology Project and INF-25-Ba-KI Artificial Intelligence are required. In the Bachelor's degree course in Applied Computer Science in the specialization Medical Informatics, the competences to be acquired in the modules INF-25-Ba-SWT Software Technology, INF-25-Ba-PMZ-DBE Database Engineering, INF-25-Ba-SWTP Software Technology Project and INF-25-Ba-KI Artificial Intelligence are required.
Applicability	The module is a compulsory elective module in the subject area Software Technology and Programming Languages in the Diploma degree program in Computer Science in the main course of study, which must be selected in accordance with Annex 2 to the examination regulations. In the Bachelor's degree program in Computer Science, the module is a compulsory elective module in the subject specialization, which must be selected in accordance with the annex to the examination regulations. In the Bachelor's degree course in Applied Computer Science, the module is a compulsory elective module in the specialization in Media Informatics and in the specialization in g Medical Informatics, which must be selected in accordance with the annex to the examination regulations. In the Master's degree program in Computer Science, the module is a compulsory elective module in the open track in the subject area of

	Software Technology and Programming Languages and the supplementary g, which must be selected in accordance with Annex 2 to the examination regulations. The module can only be selected once in the Master's degree program in Computer Science . The module cannot be selected in the Master's degree program in Computer Science if this module or a substantially similar module from a degree program in which the admission requirements according to § 3 of the study regulations have been fulfilled has already been completed . 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 non-public oral examination lasting 15 minutes. A bonus for r oral examination is the completion of 15 hours of exercises. The language of the examination may be German or English and will be specified by the lecturer at the beginning of each semester and announced in the usual manner.
Credit points and grades	6 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 180 hours.
Module duration	The module comprises one semester.