

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

Module name	Information systems in the healthcare sector
Module number	INF-25-Ba-PMZ-IGW
Responsible lecturer	Prof. Dr. Martin Sedlmayr martin.sedlmayr@tu-dresden.de
Qualification objectives	Students know the basics of medical documentation and the classification systems and nomenclatures, coding and grouping used. They are familiar with information systems in healthcare facilities and their typical functionalities and architectures as well as standards and examples of electronic networking in the healthcare sector, including telematics infrastructure and telemedicine. They know the functionality of clinical workstations in the diagnostic and therapeutic departments of the hospital, electronic medical and health records as well as approaches and examples of knowledge-based systems in medicine.
Content	The contents of the module are the architecture and areas of application of information systems in the healthcare sector with a consideration of both information systems in hospitals and systems in other sectors, the presentation of areas of responsibility and functionalities of exemplary medical information systems, the IT-supported networking of the various institutions in the healthcare sector, the development of electronic patient records, hospital information systems, clinical workplace systems, departmental systems in diagnostic and therapeutic hospital departments, communication concepts and standards in medicine, systems for cross-institutional networking and electronic patient and health records.
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	The competencies to be acquired in the module INF-25-Ba-PMZ-EMI Introduction to Medical Informatics are assumed.
Applicability	The module is a compulsory module in the Medical Informatics specialization in the Bachelor's degree course in Applied 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. The examination language is German.
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 winter semester.

Workload	The total workload is 180 hours.
Module duration	The module comprises one semester.