

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

Module name	Introduction to medical informatics
Module number	INF-25-Ba-PMZ-EMI
Responsible lecturer	Prof. Dr. Martin Sedlmayr martin.sedlmayr@tu-dresden.de
Qualification objectives	Students know the main subject areas and methods of medical informatics. They will be able to establish connections between the subject areas and classify them in terms of subject and profession origin. They are familiar with the possible applications of IT in the healthcare sector and the associated skills required of medical informatics specialists. With the skills they have acquired, students are able to subsequently deepen their knowledge of the subject areas based on their own areas of interest.
Content	The content of the module is a thematic overview of the various subject areas of medical informatics. In particular, basic concepts and methods of information systems in healthcare, medical biometrics and epidemiology, bioinformatics, medical biosignal processing and medical image processing. Further content includes an initial overview of the various methodological focal points of medical informatics in their breadth.
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	No knowledge is required.
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 summer semester.
Workload	The total workload is 180 hours.
Module duration	The module comprises one semester.