

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

Module name	Clinicum Digitale – Modern Medicine and Interdisciplinary Cooperation
Module number	INF-25-AQ-CDig
Senior Lecturer	Dr Moritz Herzog clinicum.digitale@tu-dresden.de
Qualification objectives	Students are able to explain the basics of human bodily functions and anatomy, as well as the theoretical foundations of the most common diagnostic and interventional methods. They can assess the importance of data in medicine, its collection, processing and use. They are aware of trends and the use of innovative developments in medical technology and digital medicine. They also have an overview of the development and regulation of medical devices. After completing the module, they will be able to deal with a medical problem in structured group work and present solutions produced.
Contents	The content of the module covers the basics of medicine and computer science, introduction to medical technology software and hardware, practical modules on medical technology and the application of artificial intelligence in medicine.
Forms of teaching and learning	The module includes seminars of 2 SWS, projects of 2 SWS and self-study. The language of the seminars and projects is German.
Eligibility for participation	In the computer science bachelor's programme, the applied computer science bachelor's programme and the diploma programme, the competences to be acquired in the modules INF-25-Ba-Ma1 Lineare Algebra and Analysis and INF-25-Ba-GTI Foundations of Technical Informatics are required.
Usability	The module is part of the Informatics Master's Degree in Basic Studies. Compulsory voting module of the general qualification, established in accordance with Annex 1 to the Rules of Procedure. In the Bachelor's Informatics course, the module is a compulsory optional module of the general qualification, to be chosen in accordance with the annex to the test rules. In the Bachelor's Degree in Applied Informatics, the module is a compulsory optional module of the general qualification, to be chosen in accordance with the annex to the examination rules.
Conditions for the award of credits	Credits are awarded when the module test is passed. The module test consists of a 20-minute non-public oral test performance as a group test. The language of the exam is German.

Credits and marks	The module allows 5 credit points to be obtained. The module score corresponds to the test performance score.
Frequency of the module	The module is available during the winter semester.
Workload	The total workload is 150 hours.
Duration of the module	The module includes a semester.