

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

Module name	Computer and Robot Assisted Surgery Lab
Module number	INF-25-Ma-FVC-CRC.Lab
Senior Lecturer	Prof. Dr. Stefanie Speidel stefanie.speidel@nct-dresden.de
Qualification objectives	Students are able to describe fundamental problems of robotic surgery. You can develop the basic theoretical concepts and put the acquired knowledge into practice in the team. They have communication, organisational and management skills.
Contents	The module will cover current interdisciplinary research topics in robotic surgery, in particular medical image analysis, segmentation, navigation and advanced reality visualisation in the context of computer-assisted assistance systems in robotic surgery.
Forms of teaching and learning	The module includes 4 SWS traineeships and self-study. The teaching language of the traineeships can be German or English and is specifically determined by the teacher at the beginning of each semester and announced in the usual way.
Eligibility for participation	The computer science diploma requires the skills to be acquired in the modules INF-25-Ba-Ma1 Linear Algebra and Analysis and INF-25-Ba-AI Artificial Intelligence.
Usability	The module is a compulsory voting module in the field of Visual Computing and Machine Learning during your main studies, to be chosen in accordance with Annex 2 to the exam rules. The module is a compulsory open-track optional module in the field of Visual Computing and Machine Learning in the Master's Degree in Computer Science, as well as the supplement to be selected in accordance with Annex 2 to the exam rules. The module can only be selected once in the Master's in Computer Science. The module cannot be used in the Master's in Computer Science if this module or a module with substantially the same content from a course of study which satisfies the conditions for access laid down in Paragraph 3 the rules of study have already been complied with. The module provides the pre-requisites for the modules it designates under the pre-requisites for participation.
Conditions for the award of credits	Credits are awarded when the module test is passed. The module test consists of a complex performance of 80 hours. The language of the test will be English.
Credits and marks	The module allows 6 credit points to be obtained. The module score corresponds to the test performance score.
Frequency of the	The module is offered every semester.

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Workload	The total workload is 180 hours.
Duration of the module	The module covers 1 semester.