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

Module name	**Confidential computing**
Module number	INF-25-Ma-FSC-CONF
Responsible lecturer	Prof. Dr. Christof Fetzer christof.fetzer@tu-dresden.de
Qualification objectives	Students master methods and techniques from the field of trusted processing of data in unsafe environments such as public clouds, especially from the field of Confidential Computing.
contents	Contents of the module are methods for Confidential Computing such as Trusted Execution Environments, Local Attestation, Remote Attestation, Secret Provisioning, Attestation Policy, Confidential Service Meshes, Nested Confidential Computations, Confidential Fail-Stop Execution, Scaling of Confidential Workloads and Confidential Build Process.
Forms of teaching and learning	The module includes lectures in the scope of 2 SWS, exercises in the scope of 2 SWS and self-study. The teaching language of the lectures and exercises is English.
Requirements for participation	In the computer science degree program, the competencies to be acquired in the modules INF-25-Ba-Si Security, Software Technology, Data Management Foundations, Software Technology Project and Artificial Intelligence are required. The Master's programme in Computer Science requires basic knowledge and skills in cryptography at the bachelor's level.
usability	The module is a compulsory elective module in the field of Secure Computing in the diploma course Computer Science in the main course of study, which must be chosen in accordance with Annex 2 to the Examination Regulations. The module in the Master's programme Computer Science is a compulsory elective module in the Open Track in the field of Secure Computing and the supplement, which must be selected in accordance with Annex 2 to the Examination Regulations, and in the Distributed Systems Engineering Track, which must be selected in accordance with Annex 3 to the Examination Regulations. The module can only be selected once in the Master's programme Computer Science. The module cannot be selected in the Master's program Computer Science if this or a substantially identical module from a degree program with which the admission requirements according to § 3 of the study regulations have been fulfilled, has already been completed. The module creates the prerequisites for the modules, which it names under prerequisites for participation.
Conditions for awarding credits	The credit points are earned when the module examination has been passed. The module exam consists of a 60-minute exam. The language of the exam is English.
Credits and grades	6 credit points can be earned through the module. The module grade

	corresponds to the grade of the examination performance.
Frequency of the module	The module is offered every winter semester.
workload	The total workload is 180 hours.
Duration of the module	The module covers one semester.