

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

Module name	Distributed and Networked Systems Lab
Module number	INF-25-Ba-P-NETD
Responsible lecturer	Prof. Dr. Matthias Wählich matthias.waehlich@tu-dresden.de
Qualification objectives	Students can apply the knowledge of designing and implementing distributed, networked systems in practice. They master technical, methodological, practical and interdisciplinary specifics in the environment of distributed, networked systems, whereby they can evaluate and apply both modelling and system aspects of scalable networked systems.
contents	Contents of the module are the research-oriented processing of a scientific topic, the problem detection and solution in a topic area of the distributed, networked systems in the team and in the individual analysis. These include methods and techniques from the fields of computer networks, Internet of Things, service and cloud computing, self-organizing systems, network security or Internet measurements.
Forms of teaching and learning	The module includes internships in the scope of 4 SWS and self-study. The teaching language of the internships is German.
Requirements for participation	In the Bachelor's programme in Computer Science, the modules INF-25-Ba-Prg Programming and RoboLab, INF-25-Ba-SWT Software technology and INF-25-Ba-RN computer networks to acquire competencies, in particular knowledge of the basic concepts, basic algorithms and architectural concepts of computer science and computer networks, provided.
usability	The module is a compulsory elective module of the Bachelor's internship in the bachelor's degree program Computer Science, which must be chosen in accordance with the annex to the examination regulations. 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 passed. The module examination consists of a complex performance in the amount of 80 hours. The language of the exam is German.
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 semester.
workload	The total workload is 180 hours.
Duration of the module	The module covers one semester.

