

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

Module name	Internet and Web Applications
Module number	INF-25-Ma-FSA-IWA
Responsible lecturer	Prof. Dr. Matthias Wählich matthias.waehlich@tu-dresden.de
Qualification objectives	Students are familiar with the current state of the art in the field of Internet services and web applications, including the technologies underlying these systems. They are able to analyze or reconstruct scalable Internet services and web applications with regard to their technological composition and can independently design rough concepts for such software systems.
contents	The contents of the module include principles and functioning of widely used, current and future technologies of the application level on the Internet, in particular fundamental principles of used architectures, protocols and interaction mechanisms in the World Wide Web and their popular areas of application. In addition, the module includes systems that build on the principles of the World Wide Web and make the World Wide Web scalable and secure, as well as other services that target a large user base, such as chat systems and file sharing applications.
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 the exercises can be German or English and will be specified by the lecturer at the beginning of each semester and announced in the usual way.
Requirements for participation	In the diploma program Computer Science, in the bachelor program Computer Science and in the bachelor program Applied Computer Science, the competencies to be acquired in the modules Programming and RoboLab, Computer Networks and Software Technology are required.
usability	The module is a compulsory elective module in the field of Systems Architecture 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. In the Bachelor's programme in Computer Science, the module is a compulsory elective module of specialisation, which must be chosen in accordance with the annex to the examination regulations. The module is a compulsory elective module in the Bachelor's programme Applied Informatics in the specialisation in Media Informatics, which must be chosen in accordance with the annex to the examination regulations. The module in the Master's programme Computer Science is a compulsory elective module in the Open Track in the subject area Systems Architecture and the Supplement, which is to be selected in accordance with Annex 2 to the Examination Regulations, and in the Distributed Systems Engineering Track, which is to 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. In the Master's programme in Media Informatics, the module is a compulsory elective module in the field of specialisation modules, which must be chosen in accordance with Section 27(3) of the Examination Regulations. The module cannot be selected in the Master's degree program Computer Science and the Master's degree program Media Informatics 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 90-minute exam. The language of the examination can be German or English and will be specified by the lecturer at the beginning of each semester and announced in the usual manner.
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 summer semester.
workload	The total workload is 180 hours.
Duration of the module	The module covers one semester.