

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

Module name	<b>Engineering adaptive mobile applications</b>
Module number	INF-25-Ma-FSA-EAMA
Responsible lecturer	Dr. Thomas Springer thomas.springer@tu-dresden.de
Qualification objectives	After completing the module, students will be familiar with the challenges of context-sensitive applications for mobile ubiquitous systems as well as adaptation mechanisms for such applications. In addition, they are able to apply and transfer this knowledge independently by being able to design and implement adaptive applications for mobile and ubiquitous systems, as well as to evaluate and improve existing systems.
contents	Contents of the module are the basic challenges of mobile, ubiquitous applications, including, for example, the problems of context sensitivity or platform independence. Furthermore, the module includes solution concepts and technologies for the development of applications for mobile and ubiquitous infrastructures.
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 programme, the competencies to be acquired in the modules INF-25-Ba-RN Computer Networks, INF-25-Ba-SWT Software Technology and INF-25-Ba-DMF Data Management Foundations 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. 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. 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 complex performance of 90 hours. 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.