

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

Module number	Module name	Responsible lecturer or responsible lecturer
INF-DSE-20-E-EAMA	Engineering adaptive mobile applications	Dr.-Ing. Thomas Springer thomas.springer@tu-dresden.de
Qualification objectives	After successfully completing this module, participants 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	The module covers the fundamental 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.	
Teaching and Forms of learning	The module includes lectures in the scope of 2 SWS and exercises in the scope of 2 SWS as well as self-study.	
Requirements for participation	Basics of computer networks (Bachelor level) and distributed systems (equivalent to module Ubiquitous Systems) as well as basic knowledge of operating systems and database (management) systems on Bachelor level are required.	
usability	The module is a compulsory elective module of specialisation in the Master's programme Distributed Systems Engineering.	
Conditions for awarding credits	The credit points are earned when the module examination has been passed. The module examination consists of an oral examination performance of 30 minutes. As a preliminary examination, exercise tasks in the total amount of 60 hours are to be solved and presented.	
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 module	The module is offered every summer semester.	
workload	The workload is 180 hours.	
Duration of the module	The module covers one semester.	