

Module description

Module title Abbreviation					
Software Architecture					10-I=SA-141-m01
Module coordinator				Module offered by	
		Chair of Computer Scienc	e II	Institute of Computer Science	
ECTS			Only after succ. compl. of module(s)		
5	<u> </u>	rical grade			
Duration		Module level	Other prerequisites		
1 semester		graduate			
Contents					
Introduction to software architecture, architectural styles and patterns, software metrics, evaluation of architectural styles, software components, interface models and design guidelines, design-by-contract, component-based software engineering, service-oriented architectures, microservice architectures, scalability of databases, cloud-native and serverless computing, continuous integration, continuous delivery, continuous deployment, model-driven architecture					
Intended learning outcomes					
The students possess a fundamental and applicable knowledge about advanced topics in software engineering with a focus on modern software architectures and fundamental approaches to model-driven software engineering.					
Courses (type, number of weekly contact hours, language — if other than German)					
V + Ü (no information on SWS (weekly contact hours) and course language available)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
written examination (approx. 60 to 120 minutes); if announced by the lecturer at the beginning of the course, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
	e appea				
Master's degree (1 major) Computer Science (2014)					

JMU Würzburg • generated 20.10.2023 • Module data record 118806