

Module description

Module title					Abbreviation
Energy-Aware Engineering					10-I-EnAE-212-m01
Module coordinator				Module offered by	
holder of the Chair of Computer Science			e III	Institute of Computer Science	
ECTS	ECTS Method of grading		Only after succ. compl. of module(s)		
5	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate			
Contents					
In this module we learn about methods and metrics to evaluate energy demand and energy efficiency of techni- cal systems. We study energy-aware mechanisms for transmitting data (for example, sensor data in the Internet of Things) and for operating technical systems (such as data centers and computer clouds).					
Intended learning outcomes					
The students are able to analyze and optimize technical systems with respect to their energy demands.					
Courses (type, number of weekly contact hours, language — if other than German)					
V (2) + Ü (2)					
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. 60-120 minutes) if announced by the lecturer, 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. 15 minutes) creditable for bonus					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Teaching cycle: every year, summer semester					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Bachelor' degree (1 major) Computer Science und Sustainability (2021)					

JMU Würzburg • generated 29.03.2024 • Module data record 140229