Module title
Computer Architecture

Abbreviation
10-I-RAK-102-m01

Module coordinator
holder of the Chair of Computer Science V

Module offered by
Institute of Computer Science

ECTS 5

Method of grading numerical grade

Only after succ. compl. of module(s) --

Duration 1 semester

Module level undergraduate

Other prerequisites Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).

Contents
Instruction set architectures, command processing through pipelining, statitical and dynamic instruction scheduling, caches, vector processors, multi-core processors.

Intended learning outcomes
The students master the most important techniques to design fast computers as well as their interaction with compilers and operating systems.

Courses
V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment
written examination (approx. 50 to 60 minutes); if announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups (one candidate each: 15 minutes, groups of 2: 20 minutes, groups of 3: 25 minutes)
Language of assessment: German, English if agreed upon with the examiner

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
§ 69 (1) 1. c) Informatik Technische Informatik

Module appears in
Bachelor’ degree (1 major) Computer Science (2010)
Bachelor’ degree (1 major) Mathematics (2012)
Bachelor’ degree (1 major) Mathematics (2013)
Bachelor’ degree (1 major) Computational Mathematics (2012)
Bachelor’ degree (1 major) Computational Mathematics (2013)
Bachelor’ degree (1 major) Aerospace Computer Science (2009)
Bachelor’ degree (1 major) Aerospace Computer Science (2011)
Master’s degree (1 major) Computer Science (2010)
Master’s degree (1 major) Mathematics (2012)
Master’s degree (1 major) Mathematics (2010)
Master’s degree (1 major) Physics (2010)
Master’s degree (1 major) Physics (2011)
Master’s degree (1 major) Nanostructure Technology (2011)
Master’s degree (1 major) Nanostructure Technology (2010)
Master’s degree (1 major) Computational Mathematics (2012)