

t.CSY - Computersysteme

Person responsible for the course: Pietro Brossi, brpi
Credits: 4
Valid for: 2011/2012
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Learning objectives:

The students

- know the basic functions, architectures and components of server systems, related peripherals and subsystems
- can assemble, operate and configure server systems
- are in a position to rate and evaluate server architectures, storage network in regard of costs, usability and operation
- know the basic concepts of modern storage systems, virtualization solutions and cloud-computing concepts

Course content:

- architectures, processor variations, peripherals, RISC/CICS-systems
- type of servers, usage and area of operation, models and variation of sub-systems and peripherals
- operational concepts, interaction of hardware & operations, basics of server system-engineering
- Green-IT and IT facility-management, data centers and Grid-Computing
- NAS, SAN, archiving systems and tape-libraries incl. concept, function and operational aspects
- virtual server systems and variations/possibilities (Cloud Computing)
- new technologies, developments and operational aspects
- system-tuning, performance analysis and measurement, optimizing configurations
- basics of system-engineering & data-center operation, procurement and financial models

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*2
Tutorial/Practicum	7*4
Group teaching	
Block instruction	
Seminar	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	60 %
2	Exam during the semester	20 %
6	Practical training point system	20 %

Language of instruction:

German/English

Instruction material:

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Comments:

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