School of Engineering

t.CSY2 - Computersysteme

Person responsible for the course:	Pietro Brossi, brpi
Responsible OU:	INES/InIT
ECTS:	4
Valid for:	2012/2013
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Expertise:

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Methodological skills:

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Social skills:

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Personal skills:

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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 sytems

- 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 ICT 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 basics)

- 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*2L
Tutorial/Practicum	7*4L (in teams)
Block instruction	

Assessment:

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

description	type	form	scope	assessment	weighting
Performance records during school hours					
Semester end exam					

Language of instruction:

German/English

Instruction material:

all instructions and lecturing material can be found on OLAT

additional hand-outs from lecturer

Additional literature:

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Comments:

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