

## t.INE3 - Informatik für Ingenieure 3

**Person responsible for the course:** Alexander Bosshard, bsha

**Credits:** 4

**Valid for:** 2010/2011

**Last saved:** 01.09.2010 16:00

### Learning objectives:

The students:

know various datastructures for storing complex objects

know efficient algorithms for navigating through datastructures

know efficient algorithms for searching and sorting data

know some software patterns used in administrating datastructures

know the basics of relational database theory

### Course content:

stack, queue, list, iterator

tree, binary tree, traversal, visitor, recursion

weighted and unweighted graphs, runtime- and storage-complexity

various sort-algorithms

searching in text, binary search

### Previous knowledge:

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### Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14 * 2
Tutorial/Practicum	14 * 2
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	66 %
2	Exam during the semester	10 % each
14	Further assessments	practical exercises, 1% each

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**Language of instruction:**

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**Instruction material:**

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**Comments:**

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