

Course

PI2 - Practical Informatics 2

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General information

Long name	Practical Informatics 2
Approving CModule	<a href="#">PI2_BaTIN</a>
Responsible	Prof. Dr. Chunrong Yuan Professor Fakultät IME
Level	Bachelor
Semester in the year	summer semester
Duration	Semester
Hours in self-study	60
ECTS	5
Professors	Prof. Dr. Chunrong Yuan Professor Fakultät IME
Requirements	Basic knowledge of PI1 Capability of programming using development environments such as Eclipse
Language	German
Separate final exam	Yes

Final exam

Details

Written examination, among others with the following questions and tasks:

- \*Questions regarding the basic concepts and principles
- \*Object oriented programming
- \*Find errors in given programs

- \*Work with dynamic data structure, especially the tree data structure
- \*Work with recursive methods.

**Minimum standard**

At least 50% with correct answers

**Exam Type**

Written examination, among others with the following questions and tasks:

- \*Questions regarding the basic concepts and principles
- \*Object oriented programming
- \*Find errors in given programs
- \*Work with dynamic data structure, especially the tree data structure
- \*Work with recursive methods.

^ Lecture / Exercises

**Learning goals**

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**Knowledge**

- Object oriented Programming: Class structures
  - Object oriented Programming: Generics
  - Exception handling
  - Input and output: Streams and files
  - Input and output: Graphic user interfaces (GUIs)
  - Dynamic data structures: simple structures
  - Dynamic data structures: Graphs
  - Formal specification of syntactic structures
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**Skills**

- Object oriented programming

**Expenditure classroom teaching**

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	1
Exercises (shared course)	1
Tutorial (voluntary)	0

## Separate exam

none

## ^ Practical training

### Learning goals

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#### Skills

Object oriented implementation of dynamic data structures

Object oriented implementation of GUI components

### Expenditure classroom teaching

Type	Attendance (h/Wk.)
Practical training	1
Tutorial (voluntary)	0

## Separate exam

#### Exam Type

working on practical scenarion (e.g. in a lab)

#### Details

Evaluation of the achieved results based on presentations, demonstrations, discussions as well as documentations in form of source codes

#### Minimum standard

On-schedule delivery, presentation and demonstration of the realized programs according to task descriptions