

Course

PI2 - Practical Informatics 2

Version: 1 | Last Change: 25.09.2019 12:14 | Draft: 0 | Status: vom verantwortlichen Dozent freigegeben

^ General information

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| Long name | Practical Informatics 2 |
| Approving CModule | PI2_BaTIN |
| 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

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

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

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