

Course Manual PI2

Practical Informatics 2

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– General information

Long name Practical Informatics 2

Approving CModule [PI2 BaTIN](#)

Responsible Prof. Dr. Chunrong Yuan
Professor Fakultät IME

Valid from summer semester 2021

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

Literature

Vogt: Informatik – Eine Einführung in Theorie und Praxis, Spektrum, 2004

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 EN Klausur

– Lecture / Exercises

Learning goals

Goal type	Description
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

Special requirements

none

Accompanying material

Lecture slides
Practical exercises
Example programs

Separate exam

No

Expenditure classroom teaching

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

– Practical training

Learning goals

Goal type	Description
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

Special requirements

none

Accompanying material Documents with task descriptions as well as instructions for program development

Separate exam Yes

Separate exam

Exam Type EN praxisnahes Szenario bearbeiten (z.B. im Praktikum)

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