Technology
Arts Sciences
TH Köln

Course
SWP - Software Lab

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General information

Long name	Software Lab
Approving CModule	SWP_BaTIN
Responsible	Prof. Dr. Hans Nissen Professor Fakultät IME
Level	Bachelor
Semester in the year	summer semester
Duration	Semester
Hours in self-study	162
ECTS	6
Professors	Prof. Dr. Hans Nissen Professor Fakultät IME
Requirements	very good programming skills Knowledge in Software Engineering Knowledge in Data Bases
Language	German
Separate final exam	No

Project

Learning goals

Skills

handling of semi-formal specifications

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team-oriented software development

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structure and organize a project in terms of time and content

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application of tools
integrated development environment
version management
error management
test tools
cooperation and communication tools
multiple Java-APIs
data bases

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design of system component according to specification and requirement document

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implementation of system component according to design in a team

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verify correctness of system components

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technical documentation of system components

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integrate components into system in cooperation with other design teams

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verify integrated system

Expenditure classroom teaching

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

Separate exam

Exam Type

working on projects assignment with your team e.g. in a lab)

Details

The overall project is divided into several milestones. To each
milestone, the teams must submit different delivery items (e.g., class diagram,
implemented code, created test cases, short description of the GUI).
These submissions are evaluated based on defined evaluation criteria in terms of their completeness and Quality.
Each delivery item has a certain weighting in the assessment of a

milestone. Each milestone, in turn, contributes with a certain weighting
in the overall evaluation of the project.
The weights and the evaluation criteria of the delivery items as well as the quality requirements are communicated ro the students at the beginning of the event.
At the end of the event, a final test takes place in which a very small
example system is individually designed and implemented by each student.
This example system goes through all the phases of the project once again.
This will determine whether a student has been actively involved in the team throughout the project. The result of this final test is included in the overall grade.

Minimum standard

At least 50% of the total number of points