Technology
Arts Sciences
TH Köln

Course Manual 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
Valid from	summer semester 2022
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

Literature

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− Lecture / Exercises

Learning goals

Goal type	Description
Skills	handling of semi-formal specifications
Skills	team-oriented software development
Skills	structure and organize a project in terms of time and content
Skills	application of tools integrated development environment version management error management test tools cooperation and communication tools multiple Java-APIs data bases
Skills	design of system component according to specification and requirement document
Skills	implementation of system component according to design in a team
Skills	verify correctness of system components
Skills	technical documentation of system components
Skills	integrate components into system in cooperation with other design teams
Skills	verify integrated system

Expenditure classroom teaching

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

Special requirements

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Accompanying material	electronic presentation slides for the lecture, development tolls, electronic tutorials for self study: topics scripts, videos
Separate exam	Yes

Separate exam

Exam Type	EN Projektaufgabe im Team bearbeiten (z.B. im Praktikum)

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