



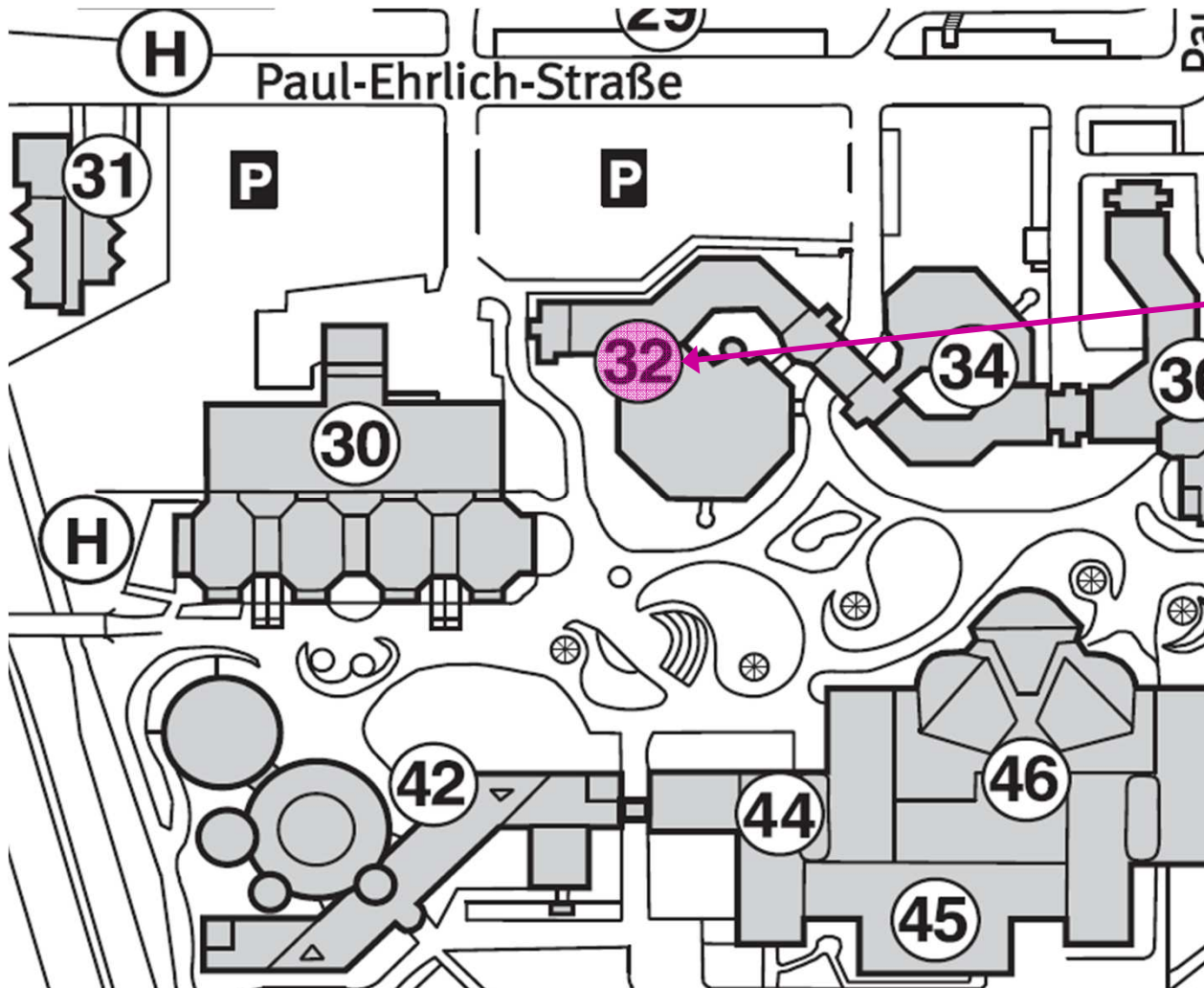
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software engineering dependability

# Quality Management of Software and Systems WS 2011/12

Welcome!

- Lecture held by the chair of Software Engineering: Dependability
  - <http://seda.cs.uni-kl.de/teaching/qmss/ws2011/>
- Lecturer:  
Prof. Dr. Peter Liggesmeyer
  - Email: [liggesmeyer@informatik.uni-kl.de](mailto:liggesmeyer@informatik.uni-kl.de)
  - Office hours on appointment
  - Room: 32-425
- Tutor:  
Michael Roth
  - Email: [michael.roth@informatik.uni-kl.de](mailto:michael.roth@informatik.uni-kl.de)
  - Office hours on appointment
  - Room: 32-427

# Administrative Issues

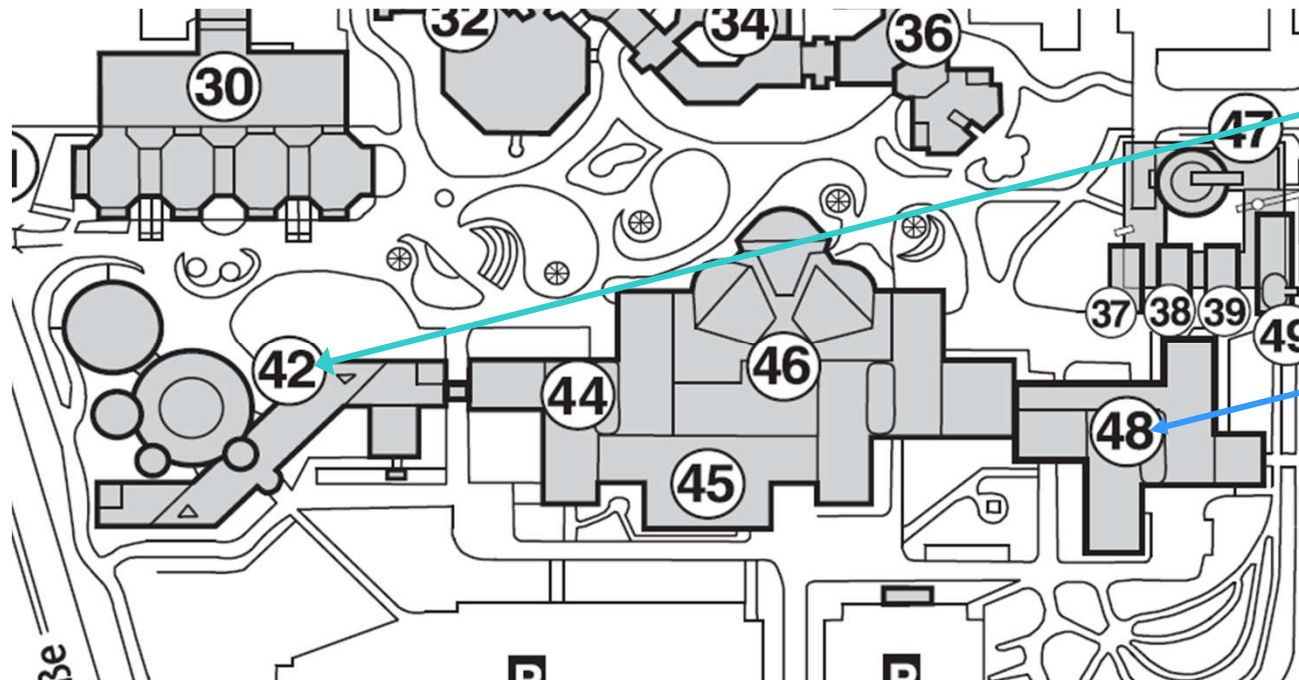


Software Engineering: Dependability

Technical University of Kaiserslautern  
Building 32, 4th Floor  
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67653 Kaiserslautern  
Germany

- Lecture (2 SWS)
  - Held weekly
  - Monday, 08:15 - 09:45, Room 48-462
- Tutorial (1 SWS)
  - Held every two weeks (usually)
  - Wednesday, 15:30 - 17:00, Room 42-110
  - Start of tutorials: Wednesday, November 9<sup>th</sup>
- Examination **modus** (oral or written) and **date**, to be announced during the lecture and/or tutorial.

# Lecture and Tutorial - Organization



Tutorial: 42 - 110

Lecture: 48 - 462

- Lecture notes available online at
  - <http://seda.cs.uni-kl.de/teaching/qmss/ws2011/material/vorlesung/>
  - In PDF format
- Exercise sheets available online at
  - <http://seda.cs.uni-kl.de/teaching/qmss/ws2011/material/exercise/>
  - In PDF format
  - Please note that worked out exercise sheets will not be graded.
  - Solutions to the exercises will not be published online, they will be discussed during the tutorial sessions.

- Goals of the lecture:
  - Understand the role and importance of quality management in software and systems.
  - Get to know several methods and techniques dedicated to the quality management, e.g. TQM, QFD, QIP, GQM, etc, and understand how are they applied in practice.
  - Be acquainted with several quality standards and assessment procedures.
  - Get familiar with the construction of a quality management system.
- Goals of the tutorial:
  - Work out solutions of exercise sheets.
  - Clarification of issues/questions concerning the lecture.
  - The tutorial is not a substitute for the lecture!

1. Introduction
2. Terminology
3. Continuous improvement approaches
4. Model based improvement approaches
5. Supporting techniques
6. Processes and Quality Management
7. Software process assessments
8. DIN ISO 9000 standards
9. Organization of tests
10. Reuse
11. Software measurement
12. Quality Function Deployment (QFD)