

# **Software Security**

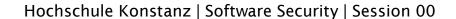


### Learning material and language policy

- All information is distributed via Moodle.
- Sign up:
  - → Informatik
  - → AIN
  - → Softwaresicherheit / Software Security (Bachelor)
- Teaching material in English
- Instruction in English/German depending on presence of exchange students
- Exam questions+answers in English/German depending on your choice

#### **Workload**

- 3 ECTS Software Security
- 3 ECTS = 90 h student workload
  - 14 lectures/exercise sessions 14 x 2 h = 28 h
  - Preparation, guest lectures, self-study, homework and exam preparation 62 h
  - 90 h / 15 semester weeks = 6 h / week
    Software Security

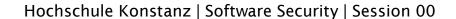


### **Formal requirements**

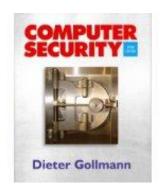
- Written exam K90 determines final grade
  - 50% Introduction to IT-Security
  - 50% Software Security
- Coursework
  - Pass 2 exercise sheets (out of 3)
- Exercise sheets not just for pass/fail, but also useful to prepare for final exam

# **Outline Software Security**

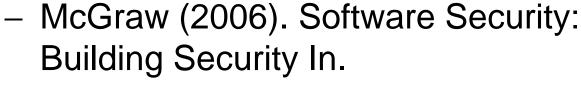
- 1. Software Vulnerabilities
- 2. Offensive Security
- 3. Secure Programming
- 4. Source Code Analysis
- 5. Security Testing
- 6. Secure Software Development Lifecycle
- 7. Software Maintenance



# **Literature Software Security**



- Gollmann (2011). Computer Security.
- Stallings/Brown (2014). Computer Security:
  Principles and Practice.



~66 € paper

Library: idx/222, 0 copies

