**Module title**  
Software Technology  

**Abbreviation**  
10-I-ST-102-m01

**Module coordinator**  
Dean of Studies Informatik (Computer Science)

**Module offered by**  
Institute of Computer Science

**ECTS**  
10

**Method of grading**  
Only after succ. compl. of module(s)

**Numerical grade**  
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**Duration**  
1 semester

**Module level**  
undergraduate

**Other prerequisites**  
Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).

### Contents

Object-oriented software development with UML, development of graphical user interfaces, foundations of databases and object-relational mapping, foundations of web programming (HTML, XML), software development processes, unified process, agile software development, project management, quality assurance.

### Intended learning outcomes

The students possess a fundamental theoretical and practical knowledge on the design and development of software systems.

### Courses

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<tr>
<th>Type</th>
<th>Number of weekly contact hours</th>
<th>Language</th>
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<tbody>
<tr>
<td>V + Ü</td>
<td>(no information on SWS (weekly contact hours) and course language available)</td>
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### Method of assessment

written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.

### Allocation of places

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### Additional information

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### Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 49 (1) 1. b) Datenbanksysteme und Softwaretechnologie  
§ 69 (1) 1. b) Datenbanksysteme und Softwaretechnologie

### Module appears in

- Bachelor' degree (1 major) Computer Science (2010)
- Bachelor' degree (1 major) Mathematics (2012)
- Bachelor' degree (1 major) Mathematics (2013)
- Bachelor' degree (1 major) Economathematics (2012)
- Bachelor' degree (1 major) Business Information Systems (2013)
- Bachelor' degree (1 major) Human-Computer Systems (2010)
- Bachelor' degree (1 major) Computational Mathematics (2012)
- Bachelor' degree (1 major) Computational Mathematics (2013)
- Bachelor' degree (1 major) Aerospace Computer Science (2009)
- Bachelor' degree (1 major) Aerospace Computer Science (2011)
- First state examination for the teaching degree Realschule Computer Science (2012)
- First state examination for the teaching degree Gymnasium Computer Science (2009)