

<b>Module title</b>		<b>Abbreviation</b>
Software Technology		10-I-ST-152-m01
<b>Module coordinator</b>		<b>Module offered by</b>
Dean of Studies Informatik (Computer Science)		Institute of Computer Science
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
10	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	--
<b>Contents</b>		
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.		
<b>Intended learning outcomes</b>		
The students possess a fundamental theoretical and practical knowledge on the design and development of software systems.		
<b>Courses</b> (type, number of weekly contact hours, language – if other than German)		
V (4) + Ü (2)		
<b>Method of assessment</b> (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)		
written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
300 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
§ 49 I Nr. 1b § 69 I Nr. 1b		
<b>Module appears in</b>		
Bachelor' degree (1 major) Computer Science (2015) Bachelor' degree (1 major) Mathematics (2015) Bachelor' degree (1 major) Economathematics (2015) Bachelor' degree (1 major) Human-Computer Systems (2015) Bachelor' degree (1 major) Computational Mathematics (2015) Bachelor' degree (1 major) Aerospace Computer Science (2015) First state examination for the teaching degree Realschule Computer Science (2015) First state examination for the teaching degree Gymnasium Computer Science (2015) Bachelor' degree (1 major) Business Information Systems (2016) Bachelor' degree (1 major) Aerospace Computer Science (2017)		

Bachelor' degree (1 major) Economathematics (2017)  
Bachelor' degree (1 major) Computer Science (2017)  
Bachelor' degree (1 major) Computer Science (2019)  
Bachelor' degree (1 major) Business Information Systems (2019)  
Module studies (Bachelor) Orientierungsstudien (2020)  
Bachelor' degree (1 major) Business Information Systems (2020)  
Bachelor' degree (1 major) Aerospace Computer Science (2020)  
Bachelor' degree (1 major) Computer Science und Sustainability (2021)  
Bachelor' degree (1 major) Business Information Systems (2021)  
Bachelor' degree (1 major) Economathematics (2021)  
Bachelor' degree (1 major) Economathematics (2022)  
Bachelor' degree (1 major) Mathematics (2023)  
Bachelor' degree (1 major) Business Information Systems (2023)  
Bachelor' degree (1 major) Economathematics (2023)  
Bachelor' degree (1 major) Business Information Systems (2024)  
Bachelor' degree (1 major) Economathematics (2024)