

Software Quality Assurance					
Course Code CIF62035	Student Workload 90 hours	Credits (according to ECTS) 4.5	Semester Sem. 6 & 8	Frequency each even-semester	Duration 16 meetings
1	Types of courses <i>elective</i>	contact hours 63 hours	independent study 27 hours	class size 40 students	
2	Prerequisites for participation Have completed Software Engineering course.				
3	Learning outcomes IF-ILO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. IF-ILO-7 Mastering the theoretical concept and principles of computer science, especially in the aspect of algorithms, programming, intelligent systems, information management, parallel and distributed computing, information security, human-computer interaction, software engineering, and fundamentals of computer systems and networks. IF-ILO-13 Graduates are able to perform abstraction, modeling, representation, and data acquisition in order to perform the data analysis.				
4	Subject aims Students are able to explain the basic concepts of software quality assurance. Students are able to describe software quality assessment standards and frameworks. Students are able to apply software quality assurance techniques. Students are able to describe the infrastructure components of software quality assurance.				
5	Teaching methods lectures, case study, class discussion, presentation.				
6	Assessment methods assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment.				
7	This module is used in the following degree programs as well				
8	Responsibility for module				

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Other information

1. Daniel Galin, 2004, Software Quality Assurance: From Theory to Implementation
2. Murali Chemuturi, 2010, Mastering Software Quality Assurance: Best Practices, Tools and Techniques for Software Developers
3. Abu Sayed Mahfuz, 2016, Software Quality Assurance: Integrating Testing, Security, and Audit
4. Alain April dan Claude Y. Laporte, 2017, Software Quality Assurance
5. Stephan Goericke, 2019, The Future of Software Quality Assurance
6. Liliana Iancu, 2019, QA Quality Assurance & Software Testing Fundamentals.
7. Ilene Burnstein, 2002, Practical Software Testing: A Process-Oriented Approach
8. Kshirasagar Naik dan Priyadarshi Tripathy, 2008, Software Testing and Quality Assurance: Theory and Practice
9. Pressman RS (2009) Software Engineering A Practitioner's Approach 7th Ed - Roger S. Pressman.
10. Sommerville I (2016) Software engineering (10th edition)