Supplementary Module of School of Engineering

Title: Advanced Software Production Seminar

Shortcut: EVA_SoftPro

Number of credits	3 ECTS
Organizer	InIT Institute of Applied Information Technology
Performance record	Short presentation (20 minutes, typically within the software systems research group at InIT) and paper (6 pages, 1-column Springer LNCS format). The paper reports on the problem investigation, design and/or results, and conclusion.
Start date	Start of semester or by agreement
Implementation mode	In this hands-on seminar, you will discover and learn how to use, design, develop, and implement advanced software production tools. The module consists of an introductory session, use case and topic assignment to students, regular colloquia with all participants to discuss findings and experiences, and a final world café session where each student shares main results and lessons learnt.
Language	Literature and report in English / German on request (colloquia/short presentation)
Abstract (max. 300 Chars)	Which are the contemporary advanced software production methods and tools? Can I develop my own advanced software production tool? How to apply advanced software production tools to real-world use cases? In this hands-on seminar we will investigate advanced software production methods and tools and apply them to real world use cases.
Module content and learning objectives	Learning objectives: - You will be able to systematically develop an innovative software production method using automation tools and state-of-the-art technologies. - You know different methods and artifacts of software production research - You know different technologies for software quality analysis automation and testing - You will be able to develop innovative software production tools - You are able to identify market segments and real application scenarios - You can apply your developed solutions in practice Module content: • Dive into a subfield or your choice of software production • Do academic and practice-oriented literature research • Extract insights from scientific publications and assess their originality

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	Communicate your findings in an oral talk and a written short paper
Preconditions	Curiosity and passion to advance software production methods and tools.
Literature	Initial papers will be provided
Specific regulations	Not applicable
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