

Complementary Module of the School of Engineering

Title: Advanced Software Production Seminar

Abbreviation: EVA_AdvancedSWPro

Credits	2 ECTS
Provider	InIT
Proof of performance	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.
Beginning	First week of fall and spring semester, by arrangement
Didactic approach and style	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 characters)	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.
Content and educational objectives	<p>Module content:</p> <ul style="list-style-type: none"> • 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 • Communicate your findings in an oral talk and a written short paper
Admission requirements	Curiosity and passion to advance software production methods and tools
Literature	Initial papers will be provided
Special regulations	Not applicable
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