



Itä-Suomen ICT-polku

COURSE DATA

BASIC INFO

Name	Software Engineering II		
Code	Savonia: ETA7800 Karelia: LTD6044 UEF: 3621416		
Name in Finnish	Ohjelmistotuotanto II		
Credits (ECTS)	10	Grading	0 - 5
Teaching period	2K		
Language	Finnish		
Type	Savonia: compulsory course Karelia: compulsory course UEF/TKT: compulsory course		



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COURSE DESCRIPTION

Objectives	After completing the course, student is able to apply a formal production method in a software project; recognizes vital operations in version management; is familiar with the focal tools of project management software (tasks, scheduling, resourcing, follow-up). Student is able to devise a feasibility study; is able to make a risk management plan and control risks in a software project; is able to apply UML in requirements engineering and technical design. Student is able to plan and implement process metrics (dashboards, key performance indicators) and is able to control changing requirements. Student is familiar with test-driven development; realizes the importance of testing in software quality assurance; is able to apply focal testing methods in different phases of a software production process; is able to make a test plan and put it into practice. Student understands the role of architecture in software engineering, is able to model architectures; and is familiar with software architecture models.
Content	UML. Version management. Project Management software (MS-project). Testing. Iterative (agile) methods. Project monitoring and control – measuring software process. Architectural design. Analysis. Project: External customer/own subject of the project group.
Modes of study	Pre-recorded theory lectures, demos, group work.
Study materials	To be announced at the start of the course.
Teaching methods	Lectures 4h, videos 5h, demos 14h, independent work approx. 80h, group work approx. 160h.
Prerequisites	Software Engineering I
Other issues	