



## MODULE DESCRIPTION

Module title	Module code
Project work	

Lecturer(s)	Department where the module is delivered
<b>Coordinator:</b> assoc. prof. dr. Saulius Ragaišis <b>Other lecturers:</b> supervisors of course works	Department of Software Engineering Faculty of Mathematics and Informatics Vilnius University

Cycle	Type of the module
First	Optional

Mode of delivery	Semester or period when the module is delivered	Language of instruction
Face-to-face	7 semester	Lithuanian

Prerequisites
<b>Prerequisites:</b> Coursework.

Number of credits allocated	Student's workload	Contact hours	Self-study hours
5	130	10	120

Purpose of the module: programme competences to be developed		
<p>Purpose of the module – to develop the abilities to apply knowledge acquired during studies and to self-uptake of new knowledge of relevant software engineering and applications areas, to apply knowledge for fulfillment of tasks specified, to develop and evaluate design solutions, to develop research skills.</p> <p><b>Generic competences:</b></p> <ul style="list-style-type: none"> <li>• Communication and collaboration (<i>GK1</i>).</li> <li>• Life-long learning (<i>GK2</i>).</li> </ul> <p><b>Specific competences:</b></p> <ul style="list-style-type: none"> <li>• Knowledge and skills of underlying conceptual basis (<i>SK4</i>).</li> <li>• Software development knowledge and skills (<i>SK5</i>).</li> <li>• Technological and methodological knowledge and skills, professional competence (<i>SK6</i>).</li> </ul>		
Learning outcomes of the module: students will be able to	Teaching and learning methods	Assessment methods
Undertake independently literature searches and analysis, and to use data bases and other sources of information.	Consulting, information retrieval, study of literature, preparation and presentation of project work	Project work, its presentation and defence, answers to the questions verbally
Acquire independently new knowledge, methodologies, and tools in the area of project work.		
Plan, design and conduct experiments, as well as other relevant project work.		
Combine theory and practice to complete software engineering tasks from different application areas.		
Formulate acceptable and effective problem solutions, implement them in project work using appropriate current techniques and models.		
Communicate the results and conclusions consistently, providing the rationale underpinning these, using correct language, in written and oral form within the requirements defined and in accordance with the academic ethics.		

Content: breakdown of the topics	Contact hours						Self-study work: time and assignments		
	Lectures	Tutorials	Seminars	Practice	Laboratory work (LW)	Tutorial during LW	Contact hours	Self-study hours	Assignments
Project work in Software Engineering		8					8	110	To analyse the topic, to offer design solutions, to perform other tasks defined for the particular assignment, prepare the project work.
Project work presentation and defence.							2	10	To prepare the presentation and be prepared to defend project work.
<b>Total</b>		<b>8</b>					<b>10</b>	<b>120</b>	

Assessment strategy	Weight %	Deadline	Assessment criteria
Project work and its defence.	100	During exam session	<p>Defence is allowed when a project work is delivered on time and with the supervisor's permission. The project work has to meet <i>The methodological guidelines for Software Engineering project works</i> issued by the Department of Software Engineering. Project works are defended against the Commission of the Department of Software Engineering. Supervisors, scientific-pedagogical staff of the Department and students participate in a defence. Any other interested persons can also participate in the defence.</p> <p>Assessment commission as well as any other participants are free to ask any questions.</p> <p>The following aspects are assessed: the work performed, document quality, presentation, answers to provided questions. Oral presentation of the work up to 10 minutes. Feedback from supervisors is taken into account. Defended work is graded.</p>

Author	Publishing year	Title	Number or volume	Publisher or URL
<b>Required reading</b>				
VU MIF Software Engineering Department	2013	The methodological guidelines for Software Engineering project works (in Lithuanian)		<a href="http://www.mif.vu.lt/se/Students/Projektinio_darbo_metodiniai_nurodymai.pdf">http://www.mif.vu.lt/se/Students/Projektinio_darbo_metodiniai_nurodymai.pdf</a>
		<i>Literature on project work topic agreed with the supervisor</i>		

<b>Recommended reading</b>				
VU Faculty of Communication	2012	Guidelines for written works guidance. Educational guidance (in Lithuanian)		<a href="http://www.kf.vu.lt/dokumentai/Studiju%20dokumentai/VUKF_metodiniai_nurodymai_2012-02-13.pdf">http://www.kf.vu.lt/dokumentai/Studiju%20dokumentai/VUKF_metodiniai_nurodymai_2012-02-13.pdf</a>
M. Berndtsson, J. Hansson, B. Olsson, B. Lundell	2008	Thesis Projects: A Guide for Students in Computer Science and Information Systems	2nd ed.	Cambridge [N.Y.] : Cambridge University Press,
P. S. Jorgensen, L. Rienecker	2003	How to write research work (in Lithuanian)		Aidai, Vilnius
K. Kardelis	2002	Research methodology and methods (in Lithuanian)		Judex, Vilnius