COURSE UNIT DESCRIPTION

Course unit title	Course unit code
Research Work	**PMTD7224**

Lecturer(s)	Department where the course unit is delivered
Coordinator: prof. dr. Romas Baronas **Other lecturers:** Master thesis' supervisors	Department of Software Engineering Faculty of Mathematics and Informatics Vilnius University

Cycle	Level of course unit	Type of the course unit
Second	2 of 3	Compulsory

Mode of delivery	Semester or period when the course unit is delivered	Language of instruction
Face-to-face	Spring semester, first year of study	Lithuanian, English

Prerequisites and corequisites	
Prerequisites: Research work (1st semester)	**Corequisites (if any):** -

Number of ECTS credits allocated	Student's workload	Contact hours	Individual work
6	170	10	160

Purpose of the course unit: programme competences to be developed		
To collect the scientific literature, and use it (to present, analyse, and etc.), to choose and apply research methods, formulate research goals and tasks; consistently, providing the rationale, using correct language, neatly arrange a literature review both in writing and verbally, within the set requirements and in the accordance with the academic ethics.		
Learning outcomes of the course unit: students will be able to	**Teaching and learning methods**	**Assessment methods**
Choose research methods and literature sources, adjust research plan taking into account new literature sources.	Information retrieval, study of literature, tutorials, preparation and presentation of a literature review	A literature review, its presentation and defence, answers to the questions verbally.
Summarize and evaluate the research results of other researchers.		
Raise and defend original ideas.		
Deliver a review of scientific literature consistently, providing the rationale underpinnings, using correct language, in written and verbal forms within the requirements and in accordance with the academic ethics.		

Course content: breakdown of the topics	Contact hours							Individual work: time and assignments	
	Lectures	Tutorials	Seminars	Practice	Laboratory work	Practical training	**Contact hours**	**Individual work**	**Assignments**
Preparation of a preliminary literature review on the topic of the Master's thesis.		8					**8**	**145**	Prepare a preliminary literature review on the topic of the Master's thesis, refine the statement of the problem to be solved.
Defence of the a literature review on the topic of the Master's thesis							**2**	**15**	Preparation of the presentation and defence of the literature review on the topic of the Master's thesis.
Total		**8**					**10**	**160**	

Assessment strategy	Weight %	Deadline	Assessment criteria
A literature review on the topic of the Master's thesis and its defence.	100	Exam session	Defence is allowed when work (literature review) is delivered on time and with a supervisor's permission. The literature review must meet the *Provisions for the Preparation of Software Engineering Master's Thesis* defined by Department of Software Engineering. The work is defended against the Commission of the Software Engineering Department. Students and scientific-pedagogical staff participate in a defence. All participants are eligible to submit questions. The following aspects are assessed: a literature review on the topic of the Master's thesis, a refinement of the statement of the problem to be solved, the presentation, and answers to the questions during the defence. The duration of the oral presentation is limited to 10 minutes. Department's Commission makes a decision by taking into account the opinions of the supervisor and the reviewer. Defence can pass or fail. Failed work is not credited.

Author	Publishing year	Title	Number or volume	Publisher or URL
Required reading				
VU MIF Software Engineering Department	2011	Provisions for the Preparation of Software Engineering Master's Thesis		http://www.mif.vu.lt/katedros/se/Studentams/Studentams.htm
VU MIF Software Engineering Department	2009	A Structure of the Software Engineering Master's Thesis		http://www.mif.vu.lt/katedros/se/Studentams/Studentams.htm
Vilnius University	2005	Procedures for Preparation, Defence and Safekeeping of Graduation Theses		VU Information Bulletin, 2005-06-23, Nr. 11(340)
Recommended reading				
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,
Yvonne N. Bui	2013	How to Write a Master's Thesis	2nd ed.	SAGE Publications, London
Peter Stray Jorgensen, Lotte Rienecker	2003	How to write research work (in Lithuanian)		Aidai, Vilnius