



## RTU Course "Master Thesis"

12306 Lietišķo datorzinātņu katedra

### **General data**

Code	DPI002
Course title	Master Thesis
Course status in the programme	Graduation Test
Course level	Post-graduate Studies
Course type	Academic
Responsible instructor	Sukovskis Uldis
Academic staff	Osis Jānis
Volume of the course: parts and credits points	1 part, 20.0 Credit Points, 30.0 ECTS credits
Language of instruction	LV, EN
Possibility of distance learning	Not planned
Abstract	The Master Thesis is an author's original research work, where techniques, methodologies, technologies, development tools, computer systems and languages for solving issues in the field of information technology and communication are assessed and integrated analytically, experimentally, or practically.
Goals and objectives of the course in terms of competences and skills	The goal of the Master Thesis is to provide students an opportunity to solve a research task, to make a well-grounded decision, to state and present the obtained results sequentially and ground his/her arguments on facts, demonstrating his/her capabilities in researching and discussing at a high professional level.
Recommended literature	RTU noslēgumu darbu noformēšanas noteikumi. Rīga: RTU, 2001.-14 lpp. LDK noteikumi noslēguma darbu noformēšanai. Rīga: RTU, LDK, 2004. – 16 lpp.

### **Learning outcomes and assessment**

Learning outcomes	Assessment methods
Is able to analyze, classify, compare ideas stated in scientific research and technical literature sources according to the work objective.	Compliance to the thesis objective, scientific adviser's and reviewer's positive assessment of completeness and topicality of analytical overview of literature.
Knows how to apply considered techniques, methodologies, technologies, development tools, computer systems and languages for task solving.	Scientific adviser's and reviewer's positive assessment of application of techniques, methodologies, technologies etc. in compliance with the thesis objective.
Knows how to formulate issues, which exist in the research field, and is able to make assumptions about these issues.	Clear, accurate, and grounded on facts statements of discovered issues and their causes are included in the Master Thesis.
Is able to integrate the obtained knowledge and to make assumptions about possible solutions of those issues.	Scientific adviser's and reviewer's positive assessment of solutions proposed in the thesis.
Is able to ground his/her decisions about solutions, and to make additional analysis, if necessary.	A solution which solves one or several discovered issues chosen based on facts and possibly analyzed that has obtained scientific adviser's and reviewer's positive assessment.
Is able to present, to explain basing on facts, and to discuss his/her work aspects publicly.	The thesis compliant with the formatting rules. The presentation that explains the essence of the research. Public defense of research results and answers to the questions and comments grounded on facts.

### **Study subject structure**

Part	CP	ECTS	Hours per Week			Tests		
			Lectures	Practical	Lab.	Test	Exam	Work
1.	20.0	30.0	0.0	0.0	0.0			*