

**RTU Course "Bachelor Thesis"**

12306 Department of Applied Computer Science

**General data**

Code	DPI001
Course title	Bachelor Thesis
Course status in the programme	Graduation Test
Course level	Undergraduate Studies
Course type	Academic
Responsible instructor	Oksana Nikiforova
Academic staff	Uldis Sukovskis
Volume of the course: parts and credits points	1 part, 10.0 Credit Points, 15.0 ECTS credits
Language of instruction	LV, EN
Annotation	Bachelor Thesis is an analytical study with elements of scientific research. It has to be performed in the area of applied computer science according to the topic individually assigned to the student. Research result has to be based on the analysis of literature sources.
Goals and objectives of the course in terms of competences and skills	The goal of the Bachelor Thesis is to demonstrate student's abilities to perform independent research. Student has to apply knowledge acquired during his/her studies to perform selection and analysis of theoretical and practical solutions described in scientific literature, to demonstrate comprehension of practical solutions based on results of analysis, to explain and discuss them. Student has to write the thesis according to the requirements for scientific writing and project documentation.
Recommended literature	Pommers J. Studentu zinātniskā darba pamati. – Rīga: Zvaigzne, 1989. – 297 lpp. Nikiforova O., Kirikova M., Strazdina R. An Open Work on Research Method in the Field of System Engineering: The Bachelor Level, The 48th Scientific Conference of Riga Technical University, Computer Science, Applied Computer Systems, October 12-13, 2007, Riga, Latvia, published in Scientific Proceedings of Riga Technical University, 5th Series – Computer Science, Applied Computer Systems, Vol. 34, 2008, pp. 17-27 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 apply scientific approach to problem solving, to perform system analysis and to assess existing and possible solutions.	Bachelor Thesis includes scientific research component, which has received a positive supervisor's and reviewer's assessment.
Is able to design a solution to solve a scientific problem.	Bachelor Thesis includes a solution component which has received a positive supervisor's and reviewer's assessment.
Is able to select and analyze theoretical and practical solutions described in scientific and technical literature.	At least five sources of scientific literature are referred to in the Bachelor Thesis.
Shows understanding about research methods, results and practical solutions, based on the results of analysis. Is able to explain and to discuss his/her work aspects.	Positive evaluation by the appointed examination commission in accordance with the requirements for academic Bachelor degree.

**Study subject structure**

Part	CP	Hours per Week			Tests		
		Lectures	Practical	Lab.	Test	Exam	Work
1.	10.0	0.0	0.0	0.0			*