



RTU Course "Master Thesis"

15E02 Avionikas katedra

General data

Code	TAA002
Course title	Master Thesis
Course status in the programme	Graduation Test
Course level	Post-graduate Studies
Course type	Professional
Responsible instructor	Trifonovs-Bogdanovs Pjotrs
Academic staff	Žukovska Jekaterīna Smirnovs Igors
Volume of the course: parts and credits points	1 part, 20.0 Credit Points, 30.0 ECTS credits
Language of instruction	LV, EN, RU
Possibility of distance learning	Not planned
Abstract	Master thesis is developed based on research in the field of air transport avionics. Master thesis defense takes place in public, and is assessed by the RTU Rector appointed State examination committee that comprises air transport industry professional associations and business representatives.
Goals and objectives of the course in terms of competences and skills	To be able to independently solve complex scientific and technical tasks and conduct research, analyze literature and technical solutions, evaluate the effectiveness of marketing options, offer alternative solutions. To be capable of drawing up the qualification requirements of work, and publicly present and defend their research and solutions.
Recommended literature	1. Electrical Power Systems: Design and Analysis. Mohamed E. El-Hawary, IEEE Computer Society Press. 2008. 808p. 2. Tooley M., Wyatt D. Aircraft Electrical and electronic Systems. Butterworth-HEINMANN Ltd, 2008g. 424lpp. 3. Moir I., Seabridge A., Aircraft Systems. Wiley-Blackwell. 2008. 546 lpp. 4. Z. Bunžs, S. Miesniece, Bezkontakta komutācijas aparāti. RTU. 2008. g. 308 lpp. 5. Electrical Power Equipment Maintenance and Testing. Paul Gill. CRC Press Inc. 2008. 1000 p. 6. RTU Senāts, Maģistrantūras nolikums, RTU, 2009.

Learning outcomes and assessment

Learning outcomes	Assessment methods
A student knows aviation topical problems and problem-solving methods.	Consultation. Volume and quality control (15%).
A student is aware of solving method optimization and is able to carry out error analysis.	Consultation. Volume and quality control (20%).
A student is able to develop aircraft avionics system algorithms and structure schemes.	Consultation. Volume and quality control (25%).
A student is able to draw system and blocks structure schemes and electrical and constructive schemes.	Consultation. Volume and quality control (25%).
A student is able to carry out preparation of the project final documentation.	Consultation. Volume and quality control (15%). State examination and the Commission's positive assessment.

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			*