

RTU Course "Master Thesis"**33000 Faculty of Computer Science, Information Technology and Energy****General data**

Code	EEI002
Course title	Master Thesis
Course status in the programme	Graduation Test
Responsible instructor	Leonīds Ribickis
Volume of the course: parts and credits points	1 part, 30.0 credits
Language of instruction	LV, EN
Annotation	Master thesis examines a specific electrical technology automatization matter, problem solution analysis and theoretical basis, as well as version realization proposals and option verification.
Goals and objectives of the course in terms of competences and skills	<p>The goal of the study course is to introduce students how to develop a scientific matter thesis in electro technology computerized automatization field and energy-electric converter usage in up-to-date engineering solutions.</p> <p>The objective of the study course is to develop student skills to analyse literature sources and existing technical solutions, to develop student skills how to improve the quality and effect of solutions, as well as skills how to provide alternative and new solutions and effectivity evaluation in different electrical technologies.</p>
Recommended literature	Norādījumi studiju noslēguma darbu noformēšanai. Rīga: RTU, 2016.gads.

Learning outcomes and assessment

Learning outcomes	Assessment methods
Is able to analyse literature, to carry out classification, to carry out theoretical calculations and experimental verifications.	Master thesis supervisor evaluation.
Knows process automatization with energy-electric converter and microprocessor control.	Master thesis supervisor evaluation.
Is able to develop electro devices in different national economy fields. A positive assessment from superior	Master thesis supervisor evaluation.
Is able to successfully prepare for Master thesis pre-defence.	Pre-defence of Master thesis.
Is able to successfully write a Master thesis report and to defend it.	Defence of Master thesis.

Evaluation criteria of study results

Criterion	%
Positive evaluation from supervisor	20
Defended Master thesis in the pre-defence	40
Defended Master thesis	40
Total:	100

Study subject structure

Part	CP	Hours			Tests		
		Lectures	Practical	Lab.	Test	Exam	Work
1.	30.0	0.0	0.0	0.0			*