Study programme	**Applied Informatics and Programming**		

Study module	**FINAL THESIS**	**Credits in total**	**9**

Learning outcomes
- Carry out the literature search, data bases and other information sources. - Able to use technical, legal and regulatory documents. - Able to critically estimate the data, acquired results and to draw the conclusions. - Able to clearly and correctly introduce the results and the conclusions of the research both in written and orally to various kinds of audience. - Identifies and analyzes the new challenges and plan strategies for their solution. -Able to compare varied technologies in accordance with criteria chosen. -Able to study into new technologies and their application possibilities for specific problem solution. -Able to analyze and describe the user's requirements. - Able to explore the existing network and make suggestions on how to optimize it. -Able to plan and organize their work to complete the tasks in time. -Able to combine knowledge from various fields and spheres and to demonstrate it in the final thesis. Depending on specialization: - Able to create web project and prepare its documentation according to the customer's requirements. - Able to modify the existing web project and adopt it to the customer's requirements. OR - Able to create mobile application and prepare its documentation according to the customer's requirements. - Able to modify the existing mobile application and adopt it to the customer's requirements. OR - Able to create small/medium size virtual network model according to the customer's requirements. - Able to build and configure a small/medium size network according to the virtual network model and/or customer's requirements.

Aims of study module
Course objective – in accordance with the supervisor's or customer's requirements and by doing practice in a company, which directly related to the final thesis task to demonstrate the knowledge and the skills acquired during the studies to fulfil the final thesis task, to compile a final thesis paper and to defend it.

Annotation of a study module
Presenting the thesis, the student demonstrates both fundamental and specific knowledge and skills of *Applied Informatics and Programming, acquired during the* study program. The final thesis consists of three main parts: analytical, design and practical parts. In the analytical part of the paper the student demonstrates the ability to select and apply various sources of information, the ability to compare technologies and select the most proper one for specific problem solution. In the design part of the final thesis the students demonstrate their abilities to specify software or design for optimal computer network. In the last part of the final thesis students demonstrate practical results. Work laconically summarizes the findings reflecting the student's logical thinking and essential performance of qualitative and quantitative indicators.

Topics of the subject
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Procedure for assessment of knowledge and competences
10-point grading scale and cumulative assessment method: the supervisor's assessment (S) is worth 20%, reviewer's assessment (R) – 20%, and thesis public defense committee's assessment (C) – 60% of the total grade, which is calculated by the method of weighted mean. Final grade of the course is $G = S*0.2+R*0.2+C*0.6$

Main literature
1. Rupšienė I., Tekutov J., Denisov V., Ramašauskas O. (2016). *Methodical instructions for the preparation of diploma (final) thesis for Informatics students*. Lithuanian Businees College. 2. Kardelis K. (2016). *Mokslinių tyrimų metodologija ir metodai*. / *Research methodology and methods.* Kaunas: Mokslo ir enciklopedijų leidybos centras, 488 p. 3. Rienecker, L., Jorgensen, P. S. (2003). *Kaip rašyti mokslinį darbą*. / *How to write a scientific paper.* Vertimas: Loreta Vaicekauskienė Vilnius: Aidai. 4. *Williamson K. (2002). Research Methods for Students, Academics and Professionals.* 2nd edition. Chandos Publishing. 350 p.

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* Short form