DESCRIPTION OF STUDY MODULE*

Study programme	**Applied Informatics and Programming**		
Study module	**SPECIALIZATION COURSE WORK**	**Credits in total**	**4**

Learning outcomes

- Recognize and analyze new problems and will plan strategies for their solution.
- Able to compare different technological solutions and choose the proper solution to the concrete problem.
- Able to clearly and correctly written and oral presentation of work results and conclusions.
- Understand the importance of development in professional skills for their professional growth.
- Develop the need to independently improve their professional skills.

Depending on chosen specialization:

- Able to create web project and prepare its documentation according to the customer's requirements.

OR

- Able to create mobile application and prepare its documentation according to the customer's requirements.

OR

- Able to diagnose and remove computer network equipment failures.
-Able to manager computer network.

Aims of study module

The aim of the course – to teach to integrate the knowledge acquired during the specialization and be able to apply it in practice while solving specific tasks and completing concrete assignments.

Annotation of a study module

The course work – is an original project work of practical value, intended to enlarge and deepen the knowledge of the subjects under the specialization. Working on the course work the students apply theoretical knowledge, aqcuired in the course of study, develop their analytical skills.

Doing course work the students formulate the aim, the tastks, disclose the importance of the theme, its problematicity, the newness; analize the given requirements, apply the method of comparison necessary to maintain the analysis of the proper programming tools to fulfill the requirements, select the most proper tools and use them to fulfill the aim of the course work. While doing course work the students are encouraged to think independently, search for the information, make decisions.

In the theoretical part of the course work the students maintain the analysis of various literature sources and programming tools/methods. Grounded on the comparative analysis of the different programming tools/methods, the best tools/methods are selected to solve the problem under the research. In the practical part of the course work the means of solving the problem and the results aquired are introduces. In the final part the students make the conclusions and the summary of the research. The course work refers to the student‘s chosen specialization and it is expectant that the thesis will be the continuation of the course work.

Topics of the subject

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Procedure for assessment of knowledge and competences

10-point grading scale and cumulative assessment method: evaluation on the course work (CW) is worth 60%, course work presentation (CWP) - 20% and course work defense (CWD) – 20% of the total grade, which is calculated by the method of weighted mean. Final grade of the course is

G = CW*0.6+CWP*0.2+CWD*0.2

Main literature

1. Kardelis K. (2016). *Mokslinių tyrimų metodologija ir metodai*. / *Research methodology and methods.* Kaunas: Mokslo ir enciklopedijų leidybos centras, 488 p.
2. Rienecker, L., Jorgensen, P. S. (2003). *Kaip rašyti mokslinį darbą*. / *How to write a scientific paper.* Vertimas: Loreta Vaicekauskienė Vilnius: Aidai.
3. *Williamson K. (2002). Research Methods for Students, Academics and Professionals.* 2nd edition. Chandos Publishing. 350 p.
4. Course work template (prepared by Informatics Department).

* Short form