Information Technologies

Course Overview

Level of study	Bachelor Degree
Workload	**ECTS: 2** **Total Hours: 72** **Contact Hours: 48** • **Lectures: 16** • **Labs: 24** • **Seminars: 8**
Course Code	ДИСЦ.В.М5
Semester	Summer
Prerequisites	Computer science
Course Objectives	• introduction to the modern approaches of the information systems software designing • formation of students' practical skills in the use of software to solve problems of data processing and analysis • To develop in students the need to educate themselves at the expense of activization of the independent informative activity
Learning Outcomes	Having successfully completed this module, you will be able to: • To know basics of modern programming environments for professional tasks • To be able to apply the knowledge of related sciences to solve problems of data processing • To have skills the use of computational tools to solve data problems of the data processing
Syllabus	• Positional number systems • Algorithms and principles of their construction • Basics of C programming language
Labs	• C data types. • C input/output of the information. • C arithmetic operations. • C logic operations. • The branching in C. • The data arrays. • The cycles in C. • The functions in C. • The final task.
Projects	

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Assessment	Credit test
Resources	• http://www.c-cpp.ru/ • http://cppstudio.com
Instructors	Lezhnina Inna A. E-mail: lezhnina@tpu.ru http://portal.tpu.ru:7777/SHARED/l/LEZHNINA