## Academic discipline:

"Algorithmization and programming"

Code and name of	1-26 03 01 Information Resource Management
specialty	
Training course	1/2
Semester of training	1/2/3
Number of class hours:	180
Lectures	80
Seminar classes	-
Practical exercises	-
Laboratory classes	100
Form of intermediate	exam/credit/exam
assessment (credit/	
differential credit/exam)	
Number of credits	8
Competencies to be	To develop algorithms and source codes of software
formed	applications used in the field of economics and
	management

## Summary of the content of the academic discipline:

Fundamentals of algorithmization. Algorithm and its properties. Varieties of algorithm structures. Methods of describing algorithms. Methods of algorithm development and analysis. Programming systems. Classification of programming languages.

Structural programming is the main elements of the language. Simple data types. Operations and their priority. Expressions. The main operators. The main features of the I/O organization. Arrays. Lines. Structures. Pointers. The main features of working with dynamic memory. Search and sorting tasks. Subroutines. The main features of the programming language for working with files. Dynamic data structures

Fundamentals of object-oriented programming. The basic principles of object-oriented programming (OOP). Integrated developer environment. Application development stages. The hierarchy of classes. Visual event-driven programming. Development of a windowed application.