INTRODUCTION TO SOFTWARE DEVELOPMENT

(name of the discipline)

ABSTRACT TO THE CURRICULUM OF THE DISCIPLINE

Information systems and technologies specialty 6-05-0611-01

(code and name of specialty)

Information systems and technologies in design and

	Form of higher education
	Full-time
Course	1
Semester	2
Lectures, hours	16
Laboratory, hours	16
Test, Semester	2
Classroom hours on the study course (including controlled self-study)	32
Independent work, hours	76
Total hours of the discipline / credit units	108/3

1 Purpose of the study discipline

The aim of the discipline is to teach students modern information technologies and means of converting, processing, storing and transmitting information.

2. Expected results of study of the discipline:

As a result of mastering the discipline, the student must

know: the device and technical means of the personal computer; system and applied software; basics of modern multimedia and network technologies, their means and possibilities; basics of algorithmic engineering problems; at least one programming language and basic methods of its use;

be able to: work in the Microsoft Windows environment; use packages of standard office software, including text processor Microsoft Word, a tabular processor Microsoft Excel, means of presentations Microsoft Power Point; use packages of special programs for mathematical assignment; construct mathematical models and develop algorithms for solving applied problems; implement algorithms in the form of their own programs in Visual Basic for Application programming language; use programming skills in professional activities.

To have skill: methods of computer modeling of technical systems and technological processes; methods of programming, use of standard programs for the solution of problems of professional activity;

3. competencies to be formed.

Learning of this discipline should provide formation of the following competences: BPC- 9 Apply modern linguistic and instrumental methods and tools of visual modeling of problem-solving processes, represent the software implementation of models in the constructions of the studied programming language

4.Requirements and forms of current and intermediate assessment.

Protection of laboratory works, intermediate - credit.