

Technologies of software development''.

(name of the discipline)

ANNOTATION

TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-40 05 01 Information systems and technologies (by directions

Specialty direction 1-40 05 01-01 Information systems and technologies (in design and production)

	Form of higher education
	Full-time
Course	1
Semester	1
Lectures, hours	34
Laboratory, hours	34
44 44 Exam, Semester	1
Classroom hours in the educational discipline	68
Independent work, hours	52
Total hours of the discipline/ credits	120 / 3,0

1. Summary of the content of the discipline

Formation of systematized knowledge of the software development life cycle and technologies used in its various stages, including modeling of the domain, requirements formalization, design solutions algorithmization, software implementation and applications debugging.

2. Learning objectives

As a result of studying the academic discipline, the student should

know:

basic concepts of information technology, basic and prospective directions of development of information systems and technologies;

Programming paradigms and existing approaches to program development;

methods, technologies and tools of analysis and modeling of the subject area;

methods, technologies and tools of analysis, modeling and algorithmization of design solutions;

principles, methods and tools of structural programming;

principles, methods and tools of object-oriented programming.

be able to:

Identify and define essential elements of design;

perform analysis of the subject area;

determine and formulate requirements for software development;

perform graphical interpretation of design solutions;

apply modern approaches to programming and debugging applications.

Mastery:

modern software design and development technologies;

skills as part of a group of specialists to develop design documentation for software;

methods of coding and debugging of software for realization of design solutions;

master modern means of infocommunication.

3. Formable competencies

UC-1, UC-5, UC-6, BPC-9

4. Requirements and forms of current and intermediate attestation.

ZLR, CR, PKU.