"INFORMATICS"
(name of the discipline)

OUTLINE
TO THE SYLLABUS OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-53 01 Automation of technological processes and productions
 (by specialty)
Specialization 1-53 01 01-01 Automation of technological processes and productions
(mechanical engineering and instrument-making)

	Form of higher education
	Full-time
Course	1
Semester	1,2
Lectures, hours	50
Laboratory classes, hours	50
In-class examination (semester, hours)	
Test, Semester	2
Exam, Semester	1
Classroom hours in the educational discipline	100 (4)
Independent work, hours	116
Total hours of the study discipline / credit units	216/6

1. Summary of the content of the study discipline
Teaching students about modern information technologies and means of transformation, processing, storage and transmission of information.

2. Learning outcomes
Know: - the device and technical means of the personal computer;
system and application software;
basics of modern multimedia and network technologies and their tools and opportunities;
basics of algorithmization of engineering problems;
at least one programming language and basic techniques of its use.
be able to: - Use the packages of standard office programs: MS Word word processor, MS Excel spreadsheet processor, MS Power Point presentation tools;
To use packages of special software for mathematical purposes;
Construct mathematical models and develop algorithms of solving applied tasks;
To realize algorithms in the form of their own programs in the programming language Visual Basic for Application;
use programming skills in professional activities.
possess: - methods of algorithmic engineering tasks;
skills of practical creation and support of functioning of automated workplaces on the basis of personal computers;
methods of program, data and equipment management on the basis of modern operating systems for personal computers.

3. Formable competencies: BPC-1, SC-15. 4.

4.Requirements and forms of current and intermediate attestation.
Defence of laboratory works, credit, exam.