"INFORMATICS"

OUTLINE
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-36 01 01 Technology of Engineering.

	Form of higher education		
	Full-time (full-time)	Correspondence	Part-time
Course	1	1	1
Semester	1,2	1,2	1,2
Lectures, hours	50	8	12
Laboratory classes, hours	50	18	14
Exam, semester		1(2ч)	2(2ч)
Test,	2	2	1
Exam	1	1	2
Classroom hours in the educational discipline	100	28	28
Independent work, hours	116	188	188
Total hours of the discipline / credit units	216/6		

1.Summary of the content 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. Course objectives
As a result of the study of the discipline, the student should
know:
- the device and technical means of the personal computer;
- system and application software;
- basics of modern multimedia and networking technologies and their tools and capabilities;
- basics of algorithmization of engineering problems;
- at least one programming language and basic techniques of its use;
be able to:
- work in the environment of the Microsoft Windows operating system;
- use the packages of standard office programs, including text processor Microsoft Word, a table processor Microsoft Excel, the means of presentations Microsoft Power Point;
- use packages of special programs for mathematical purposes;
- build mathematical models and develop algorithms for solving applied problems;
- implement 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 computer modeling of technical systems and technological processes;
- Programming methods, using standard programs for solving problems of professional activity;
3. competencies to be acquired
BPC-1.3- Master the basic methods, ways and means of obtaining, storing, processing information, computer skills as a means of information management, use of computer networks.
4.Requirements and forms of current and intermediate attestation.
ZLR, TA, exam.