INFORMATICS
(course title)
COURSE SYLLABUS ABSTRACT

6-05-0716-03 Information-measuring devices and systems
(speciality code and name)
Profilisation Information systems and technologies non-destructive control and diagnostics
(concentration)

	STUDY MODE
	full-time
Year	1
Semester	1
Lectures, hours	34
Laboratory classes, hours	34
Exam, semester	1
Contact hours	68
Independent study, hours	76
Total course duration in hours / credit units	144/4

1. Course outline

The aim of the academic discipline is training of students in modern information technologies and means of transformation, processing, storage and transmission of information.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know: device and technical means of a personal computer; system and application software; basics of modern multimedia and networking technologies software; basics of modern multimedia and network technologies and their tools and capabilities; basics of algorithmicisation of engineering tasks; at least at least one programming language and basic techniques of its use;

be able to: Use standard office software packages, including text and graphics editors, electronic use standard office software packages, including word processing, graphics, spreadsheets, databases and presentation tools spreadsheets, databases and presentation tools; use specialised software packages mathematical, statistical, design and other special programmes; build mathematical models and develop algorithms for solving applied problems; implement algorithms in the form of own programmes in a programming language; to use programming skills in professional activities.

to possess a skill:methods of algorithmicisation of engineering tasks; practical creation and support of functioning of automated workplaces on the basis of personal computers; methods of programme management, data and data management personal computers; methods of programme, data and equipment management based on modern operating systems for personal computers equipment on the basis of modern operating systems for personal computers.

3. Competencies

УК-2 Solve standardized professional tasks on the basis of application of information and communication technologies information and communication technologies

ВРС-2 Apply basic methods, ways and means of obtaining, storing, processing information, computer skills as a means of information management, work with information in computer networks

4. Requirements and forms of midcourse evaluation and summative assessment

In the study of the discipline uses a module-rating system for assessing students' knowledge. Protection of laboratory works, intermediate control of progress, exam, credit.