PROGRAMMING LANGUAGES
ANNOTATION
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-54 01 02 Methods and instruments for quality control and diagnostics of the state of objects
Direction of specialty Specialization 1-54 01 02 02 - Non-destructive testing of materials and products

	Form of higher education
	Full-time (daytime)
Well	**3**
Semester	6
Lectures, hours	34
Laboratory classes, hours	16
Exam, semester	6
Classroom hours per academic discipline	50
Independent work, hours	68
Total hours per academic discipline / credit units	108/3

1. Brief content of the discipline

The purpose of teaching this discipline is to teach the basics of programming in assembly language, the basics of object-oriented programming in C ++, the basics of declarative programming in Prolog, the basics of the VHDL digital electronic circuit description language.

2. As a result of mastering the academic discipline, the student must

know: the basics of the assembler programming language for the IBM PC; object-oriented programming technology; fundamentals of the algorithmic programming language C++; fundamentals of the Prolog language; the basics of describing digital electrical circuits in the VHDL language.

be able to: apply modern programming languages C++; to compose simple programs for solving problems in the specialty.

own: technology of object-oriented programming.

3. Formed competencies

SK-9. Be able to develop software for programmable devices.

4. Requirements and forms of current and intermediate certification.

To assess knowledge, intermediate certification in the form of defense of laboratory work and current certification - in the form of an exam are used.