

PROGRAMMING LANGUAGES

ANNOTATION TO THE DISCIPLINE'S CURRICULUM

Specialty 06-05-0716-03 "Information measuring devices and systems"

Specialization Information systems and technologies of non-destructive testing and diagnostics

	Форма получения высшего образования	
	Очная (дневная)	Заочное
Year	3	3
Semester	6	6
Lectures, hours	34	6
Laboratory classes, hours	16	4
Exam, semester	6	6
Contact hours	50	10
Independent study, hours	68	98
Total course duration in hours / credit units	108/3	

1 Course outline

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

2 Course learning outcomes

As a result of mastering the academic discipline the student must know:

- basics of assembly language for IBM PC;
- the technology of object-oriented programming;
- basics of algorithmic programming language C++
- basics of Prolog language;
- basics of description of digital electric circuits in VHDL language;

be able to:

- apply modern programming languages to compose simple programs to solve problems in the specialty;
- possess:
- technology of object-oriented programming.

3 Competencies

Mastering of this academic discipline should ensure the formation of the following competencies:

Be able to develop software for programmable devices

4 Requirements and forms of midcourse evaluation and summative assessment

The current certification is the protection of laboratory work, individual assignments. Intermediate certification is an exam.