

INSTRUMENTS AND METHODS OF VISUAL AND OPTICAL INSPECTION

ANNOTATION TO THE CURRICULUM OF THE EDUCATIONAL INSTITUTION

Specialty 6-05-0716-03 Information-measuring devices and systems

Specialization: Information systems and technologies of nondestructive control and diagnostic

	Form of receipt	
	Full-time (day)	Part-time abbreviated
Course	3	3
Semester	6	6
Lectures, hours	34	6
Laboratory classes, hours	16	4
Classroom hours in the academic discipline	50	10
Offset, semester	6	6
Independent work, hours	58	98
Total hours in the academic discipline/ credit units	108/3	

1. Summary of the academic discipline.

The purpose of teaching the discipline is to acquire knowledge on visual and visual-optical control, study of optical control devices and methods of perception, transformation and display of diagnostic information about the objects of control, acquisition of skills to work with optical devices and measuring tools, development of technological instructions and methods of control of objects.

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

- know: types of optical control, designs of optical devices, basic characteristics of optical devices, optical schemes, design of optical devices and principles of their operation, methods and techniques of measurements, characteristics of objects controlled by optical devices, regulatory documents on control;
- be able to: choose the right method of measurement, justify the choice of instruments for measurements, conduct measurements by means of measuring instruments, develop technological instructions and maps of visual-optical control, conduct visual and visual-optical control of specific objects, use regulatory documents on control;
- have the skill: work with optical devices, rules of using normative documents, methods of visual-optical control of specific objects.

3. Competencies to be formed.

Mastering of this academic discipline should ensure the formation of the following competencies: be able to carry out visual-measuring and optical control of industrial objects.

4 Requirements and forms of current and intermediate certification: control work, test assignments, performance and defense of laboratory works, current certification - examination pro-intermediate certification (oral and written form).