

STANDARDIZATION OF ACCURACY STANDARDS

SUMMARY TO THE CURRICULUM OF THE INSTITUTION OF EDUCATION

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

Profiling: Information systems and technologies of non-destructive testing and diagnostics

	Form of receipt
	Full-time (day)
Course	2
Semester	4
Lectures, hours	34
Laboratory classes, hours	16
Classroom hours in the academic discipline	50
Offset, semester	4
Independent work, hours	58
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 by students on theoretical, applied and legislative metrology, standardization and confirmation of compliance, including control and supervision over compliance with the requirements of regulatory and technical documentation, the state and use of measuring instruments.

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

know: basic concepts of metrology, standardization and conformity confirmation; principles of measuring instruments operation, their metrological and non-metrological characteristics; basic methods of measuring physical quantities; units of physical quantities and their standards; measurement tasks, selection of measurement methods, forms presentation of measurement results; types of errors of measuring instruments and methods of their evaluation; error summation; types of standards and their sequence developments; issues of confirmation of compliance of products and personnel;

be able to: correctly select methods and means of measurement; evaluate results and errors of measurement results; perform verification of measuring instruments; apply standards to specific tasks;

have the skill: have the ability to make a reasonable choice of technical and methodological support for measurements and tests, the skills to perform work on standardization and preparation for confirming the conformity of technical means, systems, processes,

3. Competencies to be formed.

The development of this educational discipline should ensure the formation of the following competencies: Be able to choose the metrological support of technical means of control and regulatory documents for control.

4. Requirements and forms of the current and intermediate certification: test work, test tasks, performance and protection of laboratory work, exam (oral and written form).