

# 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	16
Laboratory classes, hours	16
Classroom hours in the academic discipline	32
Offset, semester	4
Independent work, hours	76
Total hours in the academic discipline/ credit units	108/3

### 1. Summary of the academic discipline.

The purpose of teaching this discipline is to form a complex of knowledge, skills and professional competencies among students in the field of theory of technical measurements, a system for ensuring the uniformity of measurements and uniformity of measuring instruments, the basis for choosing requirements for the accuracy of parameters and the essence of standardization of these requirements

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

know: methods of ensuring interchangeability at the stages of the product life cycle, the basic principles of constructing tolerance systems and fits, basic standards of basic standards of interchangeability, covering tolerance systems and fits for typical types of joint-unions of instrument parts;

be able to: select and use standards of basic standards of interchangeability, indicate the requirements for the accuracy of the parameters of parts, assembly units and products as a whole, carry out control with gauges and basic universal measuring instruments, correctly present the results of the measurement control indicating the error and uncertainties;

have the skill: a methodology for ensuring the interchangeability of technical elements systems, methods of normalizing accuracy of parameters, methods of normalizing accuracy of parts, assembly units and products as a whole.

### 3. Competencies to be formed.

The development of this educational discipline should ensure the formation of the following competencies: Apply accuracy standardization methods when manufacturing parts and assemblies.

4. Requirements and forms of the current and intermediate certification: control work, those tasks, protection of laboratory work and offset (oral and written form).