

## STANDARDIZATION OF ACCURACY STANDARDS

(name of the discipline)

### ANNOTATION TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

**Specialty 1-54 01 02 - "Methods and devices for quality control and diagnosticsstate of objects"**

**Specialization 1-54 01 02 02 - "Non-destructive testing of materials and products"**

|  | The formhigher education |                    |                                |
|--|--------------------------|--------------------|--------------------------------|
|  | Full-time<br>(daytime)   | Correspon<br>dence | Corresponde<br>nce abbreviated |
| Well   | 2                        |                    |                                |
| Semester   | 4                        |                    |                                |
| Lectures, hours                                    | 34                       |                    |                                |
| Practical (seminar) lessons, w a t c h             | -                        |                    |                                |
| Laboratory classes, hours                          | 16                       |                    |                                |
| Test, semester                                     | 4                        |                    |                                |
| Classroom hours per academic discipline            | 50                       |                    |                                |
| Independent work, hours                            | 70                       |                    |                                |
| Total hours per academic discipline / credit units | 108/3                    |                    |                                |

#### 1. Brief content of the discipline

The discipline contains material on the theory of technical measurements, the system of uniformity of measurements and uniformity of measuring instruments, the basics of choosing requirements for the accuracy of parameters and the essence of standardization of these requirements.

#### 2. Learning outcomes.

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

– **know:** methods for ensuring interchangeability at the stages of the product life cycle, basic principles for building tolerance and fit systems, basic standards for basic interchangeability standards, covering tolerance and fit systems for typical types of connections for instrument parts;

– **be able to:** choose and use the standards of the basic interchangeability norms, designate the requirements for the accuracy of the parameters of parts, assembly units and products in general, carry out control with calipers and basic universal measuring instruments, correctly present the results of measurement control indicating the error and uncertainty;

– **own:** methodology for ensuring the interchangeability of elements of technical systems, methods for standardizing the accuracy of parameters, methods for standardizing the accuracy of parts, assembly units and products in general.

3. Formed competencies: BPK-7 "To master the methods of standardization of accuracy in the manufacture of parts and assemblies."

#### 4. Requirements and forms of current and intermediate certification.

Requirements and forms of current certification: credit. In order to be admitted to the test, the student, in accordance with the curriculum, is obliged to complete and defend laboratory work, and perform tests.