

SCIENTIFIC AND TECHNICAL SUPPORT OF MEASUREMENTS**(name of academic discipline)****ANNOTATION****TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION****Specialty 7-06-0716-03 – Instrumentation**

	Форма получения высшего образования	
	Очная (дневная)	Заочная
Course	1	1
Semester	1-2	1-2
Lectures, hours	34	8
Practical (seminar) classes, hours	50	10
Report, semester	1	1
Exam, semester	2	2
Classroom hours per academic discipline	84	18
Independent work, hours	132	198
Total hours per academic discipline /	216/6	

1. Summary of academic disciplines

The purpose of the discipline is to master the fundamentals of metrology, develop a system solution for measuring tasks, prepare for the development of applied disciplines devoted to methods and measuring instruments.

2. Learning outcomes

As a result of mastering academic disciplines, the student must

know: the main directions of the modern theory of measurements; currently known characteristics of the magnitude of the magnitude, procedures for transferring the magnitude of the magnitude from standards to reliable measurements of means (verification schemes);

be able to: build mathematical models of object measurements; error estimation of functions of approaching parameters; analyze climate measurements;

Possesses the skill: an idea of the products of constructing measurement functions of various physical quantities; skills in processing measurement results.

3. Formed competencies

Names of competencies being formed
Apply methods of scientific knowledge in research activities, generate and implement innovative ideas
Solve research and innovation tasks based on the use of information and communication technologies
Provide communication, demonstrate leadership skills, be capable of team building and development of strategic goals and objectives
Be able to predict the conditions for the implementation of professional activities and solve professional problems in conditions of uncertainty
Possess the skills of setting up an experiment, processing and presenting its results

4. Requirements and forms of current and intermediate certification.

The module-rating system of knowledge assessment is used. Offset. Exam.