

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

Codes of generated competencies	Names of competencies being formed
УК-1	Apply methods of scientific knowledge in research activities, generate and implement innovative ideas
УК-2	Solve research and innovation tasks based on the use of information and communication technologies
УК-4	Provide communication, demonstrate leadership skills, be capable of team building and development of strategic goals and objectives
УК-6	Be able to predict the conditions for the implementation of professional activities and solve professional problems in conditions of uncertainty
УПК-1	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.

