

Summary of discipline Measurement Devices and Monitoring

Introduction. The program of the course "measuring and control"

drawn up in accordance with the educational and professional training programs for bachelor direction 6.051003 "Instrument" (specialty 7.05100302 "Devices and systems for precision mechanics").

Academic discipline belongs to the cycle of disciplines of free choice students. The subject of the course - principles, design and design of measurement and control devices.

Interdisciplinary relations: the structural logic circuit training program taught discipline in the final stages of preparation, based on the most previously studied disciplines such as higher mathematics, computer science and programming, metrology, theory and design of instrumentation, transformative devices and other devices. The course provides further study and assimilation of the training program for obtaining a Bachelor Specialist and Master.

1. The purpose and objectives of the course

1.1. The purpose of discipline.

The aim of the course is to develop students' abilities:

? conduct analytical review, classification and selection of measurement and control devices;

? perform the necessary design and engineering calculations;

? use the appropriate knowledge to solve practical problems.

1.2. The main objectives of the course.

Requires educational and professional program students after mastering discipline must demonstrate the following learning outcomes:

knowledge:

the main issues on criteria for measurement and control devices, design features and design of major components and systems;

the ability to:

perform analytical review, classification and selection of measurement and

control devices, to conduct their functional and structural analysis, design and

perform the necessary engineering calculations;

experience:

independent use of acquired knowledge and skills in the practical tasks.