

Summary of discipline Electro- and Mechatronics Introduction

The program of the course "Electric and mehanotronika"

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

Academic discipline belongs to the cycle of self-selection sciences university.

The subject of the course - principles of design and design of devices and systems for electrical and mehanotroniky.

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 transformative devices devices, computer science and programming, design elements instrumentation, theory and design of instrumentation and others.

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 devices and systems for electrical and mehanotroniky;

? perform the necessary design and engineering;

? 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:

major issues of principles of construction devices and systems for electrical and mehanotroniky, design features and design of major components and systems;

the ability to:

perform analytical review, classification and selection of devices and systems for electrical and mehanotroniky, 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.