

Summary of discipline Computer Technologies in Decision Making Introduction
The program of the course "Technology decision making" made in accordance with the educational and vocational training programs and masters degree 7 / 8.05100302 "Devices and systems for precision mechanics."

Academic discipline belongs to the cycle "Courses of free choice of students." The object of the course is the modern computer technology decisions using mathematical modeling, algorithms, optimization, used in the design and construction of devices and systems for precision mechanics.

Academic discipline based on previously studied courses, namely: foundations of computer science and computer engineering, mathematical methods and models on a computer, bases of database system CAE / CAD and others.

At the presentation of the above general technical subjects should be associated with their complex requirements for ensuring a high level of scientific and technological development of devices based on the latest computer technology decisions.

1. The purpose and objectives of the course

1.1. The purpose of discipline.

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

- The use of modern methods of computer devices and research facilities for the measurement tasks;
- Analysis of the problem within existing computer technology decision-making;
- Algorithms for computer technology implementation decisions for specific tasks development of devices and systems for precision mechanics;
- Computer study of the procedure according to the chosen technology.

1.2. The main objectives of the course.

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

knowledge:

- Theory of building software for measuring devices;
- Ways of making decisions using computer technology;
- Principles of construction of optimal design of measurement.

skills: thorough owned computer technology decision-making instrument, namely by mathematical modeling, optimization, numerical experiment realized on a computer.

Experience: solution of complex problems in developing modern devices by using different methods and computer technology.