

An annotation of discipline is "Computer technologies of making decision"

Introduction

Program of educational discipline "Computer technologies of making decision" are made in accordance with the educationally-professional programs of preparation specialist and master's degree of speciality 7/8.05100302 " Devices and systems of fine mechanics ".

Educational discipline belongs to the cycle of "Discipline of free choice of students".

The article of educational discipline are modern computer technologies of making decision with the use of mathematical design, algorithmization, optimizations that is used for planning and constructing of devices and systems of fine mechanics.

Educational discipline is based on the preliminary studied courses, namely : bases of informatics and computing engineering, mathematical methods and models, are on COMPUTERS, bases of construction of bases given, system CAE/CAD and other. At exposition of the above general technical subjects o it follows to bind them to the requirements to the complex providing of high scientific and technical level of development of devices on the base of the newest computer technologies of making decision.

1. Aim and task of educational discipline

1.1. Aim of educational discipline.

The aim of educational discipline is forming for the students of capabilities : it is application of modern methods of computer researches of devices and measuring objects for the put tasks;

- to the analysis of the put problem taking into account present computer technologies of making decision;
- algorithms for realization of computer technologies of making decision for the concrete tasks of development of devices and systems of fine mechanics;
- it is realization of procedure of computer research according to select technology.

1.2. Basic tasks of educational discipline.

According to the requirements of the educationally-professional program students after mastering of educational discipline must show such results of studies : knowledge:

- are theories of construction of programmatic complexes for facilities of measuring;
- ways of making decision by means of computer technologies;
- principles of construction of the systems of the optimal planning of measuring facilities.

ability: thoroughly owned computer technologies of making decision in an instrument-making, namely: by the methods of mathematical design, optimization, numeral experiment, realized on COMPUTER.

experience: decision of intricate problems in relation to development of modern devices with the help of the use of different computer methods and technologies.