

Annotation of discipline "New informative and wireless devices in an instrument-making". Program of educational discipline "New information and wireless technology in an instrument-making" are made in accordance with the educationally-professional program of preparation master's degree, specialist of speciality 7.05100306 "Information technologies in an instrument-making". Educational discipline belongs to the cycle of "Discipline of independent choice of educational establishment".

The article of educational discipline is:

-it is a capture future specialists by modern methods and principles of the informative, telecommunication systems;

-it is a capture of application of the informative, telecommunication systems modern tendencies in an instrument-making.

Discipline is based on the preliminary studied courses, especially: databases, computer DATSS, converting devices of devices, basis of energy-savings, devices and systems in an energy-savings et al.

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 instruments of the telecommunication systems in an instrument-making;

- to the analysis of the put problem taking into account present computer technologies of decision of tasks;

it is determination of correct method of computer research for a concrete task;

it is preparation of specialists (designers, metrologists, researchers, scientists), that thoroughly would own bases of information technologies at planning, constructing and exploitation of devices and systems of measuring of mechanical sizes.

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:

it is possessing information technologies in an instrument-making;

it is a capture actual examples of modern achievements in industry of information technologies;

- ways of development of instrument-making in combination with new information technologies

ability: to own the instruments of information technologies at planning of measuring devices and systems; by the algorithmization of going near the decision of typical tasks of planning, by technologies of treatment and analysis of results of measuring and transmission of them on distance.

experience: it follows to link the marked knowledge and abilities within the framework of approach of the systems to the complex providing of high scientific and technical level of development of devices. Approach of the systems envisages the acceptance of optimal decisions, in particular, structural and scheme, using the modern instruments of computer engineering.