Abstract work program to credit module "Descriptive geometry and engineering graphics."

The purpose of the credit module is the formation of students' abilities:

- geometric modeling and computer methods of instrumentation products;
- construction and design of engineering drawings and schemes according to existing standards;
- using in his professional Activities information designing systems.

The main tasks of the loan unit.

According to the requirements of the program of the course students after mastering credit module should demonstrate the following learning outcomes:

knowledge:

- basic principles of geometric modeling objects;
- projection methods of construction and study of spatial objects at their flat images on the drawings;
- the requirements of existing state, interstate and international standards applicable in the territory of Ukraine and are used in the construction of technical documentation for instrument industry;
- capabilities of modern graphics editors for modeling objects, execution and editing their pictures and drawings, as well as preparation of design and technological documentation;
- with basic training and information graphically to target professional profile of the faculty.

the ability to:

- perform image projection and read any geometric and technical objects;
- use drawings as flat geometric model of the object on which to explore the same geometric parameters and the real product;
- analyze and to search for the optimal solution for solving problems in complex drawings;
- draw up design documents according to the requirements of existing standards;
- perform design and engineering documents using CAD systems;
- apply knowledge of computer graphics, modern information technologies in the study of other disciplines and future careers;
- create and use drawings in various stages of design.

experience:

- perform a sketch by hand and drawings using drawing tools as well as computer-aided design;
- work with project information and means;
- information management information and technical means;
- possession and use appropriate terminology reference books.