

Credit program module "Descriptive Geometry" is made in accordance with the educational and vocational training programs for bachelor direction 6.051103 avionics, specialty 6.05110302 "Control of aircraft and complexes."

Discipline lays the foundation for the study of other disciplines, such as engineering and computer graphics, integrated computer design technology, construction of devices precision mechanics, performance of course and degree projects.

The purpose of the credit module is the formation of the students' abilities to modeling geometrical methods instrumentation control systems aircraft, the development and execution of technical drawings, to use in their future professional activity of computer-aided design.

According to the requirements of the program of the discipline students, after mastering the credit module should demonstrate such learning outcomes:

*knowledge:*

- fundamentals of geometric modeling of different shapes (lines, surfaces and solids);
- projection methods of construction and the study of spatial objects in their flat images;
- with respect to the metric geometric and positional problems.

*skills:*

- to perform and read a projection image of geometric objects as points, lines, surfaces and bodies;
- to build a perspective view of the bodies.

*an experience:*

- spatial reasoning (representation), logical-algorithmic solution of engineering problems;
- determining the mutual position of geometrical objects in the space (the points of intersection of lines, surfaces, solids and the like);
- determination of distances, lengths, angles, areas, reamers, geodesic lines and so on.