

Credit program module "Engineering and Computer Graphics" discipline "Engineering and Computer Graphics" prepared in accordance with the educational and vocational training programs for bachelor direction 6.051103 "Avionics" in the specialty 6.05110302 "Control of aircraft and complexes."

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

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

*knowledge:*

- basic principles of geometric modeling of technical objects;
- projection methods of construction and the study of spatial objects at their flat in the figure.
- key features of modern engineering software packages.

*skill:*

- to carry out and read a projection image of technical objects;
- to make out design documents in accordance with applicable standards;
- perform engineering and design documents using computer-aided design;
- create a variety of drawings of parts and assembly units;
- apply the knowledge of computer graphics, modern information technologies in the study of other disciplines in the future professional activity.

*an experience:*

- use of existing standards for the development of technical documentation;
- implementation of the hand sketches and drawings using the drawing tools.