

ENGINEERING AND MACHINE GRAPHICS

(course title)

COURSE SYLLABUS ABSTRACT

Speciality 6-05-0722-05 Production of products based on three-dimensional technologies

	STUDY MODE
	Full-time
Year	1
Semester	1-2
Lectures, hours	34
Practical classes, hours	68
Exam, semester	1
Pass/fail, semester	2*
Contact hours	102
Independent study, hours	114
Total course duration in hours / credit units	216 / 6

1. Course outline: straight; plane; drawing conversion methods; metric tasks; surfaces; positional tasks; KOMPAS-3D system; detachable and non-detachable connections; sketches; working drawings of details; assembly drawings with specifications

2. Course learning outcomes.

Upon completion of the course, students will be expected to

- know: formation of drawings by the method of projection; graphic methods for solving positional and metric geometric tasks; graphic programs and computer modelling; state standards for the execution and design of drawings;
- be able to: develop design documentation; draw projection images of spatial geometric shapes on a plane; understand engineering drawings, use standards and reference books; make drawings using computer graphics, draw 3D computer models;
- to possess a skill: graphic representation on a plane and in space, requirements of the Unified System of Design Documentation.

3. Mastering this academic discipline should ensure the formation of the following competencies:

Codes of generated competencies	Names of competencies being formed
BPK-3	Develop and execute graphic images for design and estimate documentation, taking into account the requirements of the Unified Design Documentation System

4. Requirements and forms of current and intermediate certification:

Intermediate certification includes the defense of individual tasks, in which the student answers control questions. The current certification is carried out in the form of an exam (1st semester) and a differentiated test (2nd semester).