

ENGINEERING GRAPHICS

(course title)

COURSE SYLLABUS ABSTRACT

Speciality 6-05-0714-02 Technology of mechanical engineering, metal cutting machine and tools

Concentration Equipment and technologies for highly efficient material processing processes

	STUDY MODE
	Full-time
Year	1
Semester	1-2
Lectures, hours	34
Practical classes, hours	68
Exam, semester	1
Pass/fail, semester	2*
Contact hourse	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:

Names of competencies being formed
Own the basics of descriptive geometry, methods of projection engineering drawing, execution and reading of engineering drawings, development and execution of design documentation

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).