

ENGINEERING GRAPHICS

(name of the discipline)

**ANNOTATION  
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION**

**Specialty** 1 – 36 01 04 Equipment and technologies for highly efficient material processing processes

	Study mode
	Full-time
Course	1
Semester	1, 2
Lecture, hours	34
Practical classes (seminars), hours	84
In-class test, hours	1
Test, hours	2
Classroom hours for the academic discipline (including hours for managed independent work)	118 (36)
Independent work, hours	206
Total course duration in hours / credit units	324 / 9

1. Brief content of the academic discipline: point; straight; metric properties of the projection; plane; drawing conversion methods; metric tasks; surfaces; positional tasks, KOMPAS-3D system.

2. As a result of studying the academic discipline, the student must know: the formation of drawings according to the projection method; graphic methods for solving positional and metric geometric problems; applied graphic programs and computer modeling; geometric shaping of machine-building parts; state standards for the execution and design of drawings.

Must be able to: develop design documentation (competence in accordance with BOD-5 curriculum); build projection images of spatial geometric shapes on a plane; perform and read engineering drawings, while using standards and reference books; make drawings using computer graphics, build three-dimensional computer models of parts.

Must be proficient in: methods of graphic representation on a plane and in space, the requirements of the Unified System for Design Documentation (competence in accordance with BOD-5 of the curriculum).

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

Codes of generated competencies	Names of competencies being formed
БПК-5	Own the methods of graphic representation on a plane and in space, the requirements of the Unified System for Design Documentation, be able to develop design documentation.

4. Requirements and forms of current and intermediate certification: traditional, multimedia, using a computer.