

DESCRIPTIVE GEOMETRY, ENGINEERING AND COMPUTER GRAPHICS

(course title)

COURSE SYLLABUS ABSTRACT

Specialty 7-07-0732-01 Construction of buildings and structures

Profiling Car roads

	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: Introduction. Straight. Plane. Surfaces. Intersection of geometric shapes. Methods for transforming projections. Metric tasks. Projections with numerical marks.

2. Course learning outcomes.

Upon completion of the course, students will be expected to

- to know the methods of projection in the given systems of projection planes of a point, a straight line, a plane and a surface; signs of parallelism and perpendicularity of straight lines, a straight line and a plane, two planes; surfaces and how to set them on the drawing; basic principles for constructing the intersection of geometric shapes and their natural sizes; algorithm for constructing the boundaries of earthworks; GOST ESKD and SPDS; rules for the implementation of construction drawings; the basics of working in AutoCAD.

- be able to: be able to perform basic images; solve positional, metric and complex problems; perform construction drawings; read engineering drawings; use standards and reference books; use PC to make drawings.

- to possess a skill: presenting details, reading construction drawings; the use of computer technology to build drawings; rules for the preparation of construction documents.

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

To carry out graphic constructions on a plane and in space to solve professional problems.

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 test (2nd semester).