

COMPUTER GRAPHICS

(name of the discipline)

ANNOTATION TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 7-06-0715-01 Transport

Profiling Technical operation of vehicles

Advanced higher education

	Form of higher education	
	Full-time (daytime)	Correspondence
Year	1	1
Semester	1	1
Lectures, hours	16	4
Laboratory classes, hours	34	6
Pass/fail, semester	1	1
Contact hours	50	10
Independent study, hours	58	98
Total cours duration in hours / credit units	108/3	

1. Course outline:

SOLIDWORKS interface, KOMPAS- 3D. Graphic primitives. Construction of three-dimensional models. Building arrays. Building a circular array. Creation of assembly of products.

2. Course learning outcomes

Upon completion of the course, student will be expected to

- know the technical foundations of image formation, methods and ways of formalizing graphic objects, applied graphic programs and computer modeling, geometric shaping of machine-building parts, creation of three-dimensional models.
- be able to read assembly drawings of increased complexity, execute and read engineering drawings, execute drawings using computer graphics, build three-dimensional computer models of parts.
- to possess a skill of performing graphic works in the KOMPAS-3D, SOLIDWORKS system .

3. Competencies

Solve research and innovation tasks based on the use of information and communication technologies. Provide communication, demonstrate leadership skills, be capable of team building and development of strategic goals and objectives. Develop innovative susceptibility and ability to innovate. Apply modern computer technologies when conducting scientific research and designing transport facilities and systems. Apply computer-aided design systems when creating objects of transport systems.

4. Requirements and forms of midcourse evaluation and summative assessment.

Intermediate certification includes the defense of laboratory work, in which the student answers control questions. The current certification is carried out in the form of a test (1 semester).