ENGINEERING GRAPHICS

ANNOTATION
TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

SPECIALTY 1 - 37 01 02 "AUTOMOTIVE" (ACCORDING TO DIRECTIONS)

	Form of higher education
	Full-time (daytime)
Well	1
Semester	1, 2
Lectures, hours	34
Practical (seminar) classes, hours	102
Laboratory classes, hours	34
Report, semester	2
Exam, semester	1
Classroom hours per academic discipline	170
Independent work, hours	154
Total hours per academic discipline / credit units	324/9

1. Brief content of the discipline
Introduction. Straight. Plane. Drawing conversion methods. Surfaces. positional tasks. Brief information about computer graphics.
Types, sections, sections. Classification of threads, threaded connections. Specification. Slotted and keyed connections. Sketching of parts such as "shaft", "gear wheel". Assembly drawing of the node. Detailing. Making working drawings of parts. Rules for applying dimensions and designations on engineering drawings.

2. Learning outcomes
- **know** the formation of drawings according to the projection method, graphic methods for solving positional problems and metric geometric problems, applied graphic programs and computer modeling, geometric shaping of machine-building parts, state standards for the implementation and design of drawings.
- **be able** to build projection images of spatial geometric shapes on a plane, make and read engineering drawings, use standards and reference books, make drawings using computer graphics, build three-dimensional computer models of parts.
- **own** methods of sketching individual technical means and assemblies, methods of visual representation of parts and reading drawings, methods of using computer technology to draw drawings.

3. Formed competencies
Own the basics of descriptive geometry, methods of machine-building projection drawing, execution and reading of machine-building drawings, development and execution of design documentation.

4. Requirements and forms of current and intermediate certification.
The module-rating system of knowledge assessment is used. Intermediate control of progress is carried out on the basis of the implementation and protection of a number of graphic individual tasks with scoring. The current attestation is carried out in the form of an exam (1st semester) and a test (2nd semester).