

**EFFICIENT METHODS FOR INCREASING THE PERFORMANCE
CHARACTERISTICS OF MACHINE PARTS
ANNOTATION**

TO THE CURRICULUM OF THE EDUCATIONAL INSTITUTION

Specialty 1-36 80 02 "Innovative technologies in mechanical engineering"

	Form of higher education	
	full-time (daytime)	part-time (abbreviated)
Well	3	3
Semester	6	6
Lectures, hours	34	8
Practical (seminar) classes, hours	16	4
Report, semester	6	6
Classroom hours per academic discipline	50	12
Independent work, hours	58	96
Total hours per academic discipline / credits	108/3	108/3

1. Brief content of the discipline

The discipline "Effective methods for improving the performance of machine parts" contains a general understanding of the complex of special knowledge and skills in the field of various methods for improving the performance of machine parts, used technological equipment and equipment.

2. Learning outcomes

As a result of mastering the academic discipline, the student should **know**:

- technical capabilities of various methods for improving the performance of machine parts;
- the physical essence of methods for improving the performance of machine parts;
- tools, fixtures and equipment used to improve the performance of machine parts;
- operational properties of surfaces of machined parts.

be able to:

- choose methods for improving the performance of machine parts for processing individual surfaces of the part, providing the necessary quality and efficiency of the processing process;
- determine the optimal processing parameters by various methods to improve the performance of machine parts.

own:

- methodology for choosing a method for improving the performance of machine parts for processing individual surfaces of a part, taking into account the requirements of the drawing and type of production;
- information on modern methods of improving the performance of machine parts and prospects for their development;
- skills in the choice of equipment, tooling, automation and mechanization in the design of processing technology by methods of improving the performance of machine parts.

3. Formed competencies

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

Codes formed competencies	Names of competencies being formed
SK-2	Know promising methods for hardening machine parts and their areas of application

4. Requirements and forms of current and intermediate certification

Current and intermediate certification is carried out in written and oral-written form through reports on practical work with their oral defense and written credit.