EFFICIENT METHODS FOR INCREASING THE PERFORMANCE CHARACTERISTICS OF MACHINE PARTS

(name of the discipline)

ANNOTATION

TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

for the specialty 7-06-0714-02 Innovative technologies in mechanical engineering

profiling Mechanical engineering and machine science

	Form of higher education	
	Full-time (daytime)	Correspondence
Well	1	2
Semester	2	4
Lectures, hours	34	8
Practical lessons, hours	34	8
Report, semester	2	4
Classroom hours per academic discipline	68	16
Independent work, hours	148	200
Total hours per academic discipline / credits	216/6	216/6

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: 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.