

TECHNOLOGICAL METHODS OF INCREASING WEAR RESISTANCE AND RESTORATION OF MACHINE PARTS

(name of the discipline)

ANNOTATION

TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-36 01 01 «Engineering technology»

| Form of higher education | | | |
|---|------------------------|-------------------------------|----------------|
| | Full-time (daytime) | Correspondence abbreviated | Correspondence |
| Course | 4 | 4 | 5 |
| Semester | 7 | 8 | 9 |
| Lectures, hours | 34 | 8 | 6 |
| Laboratory classes, hours | 34 | 8 | 4 |
| Report, semester | 7 | 8 | 9 |
| Classroom hours per academic discipline | 68 | 16 | 10 |
| Independent work, hours | 40 | 92 | 98 |
| Total hours per academic discipline / credit units | 108/3 | | |

1. Brief content of the discipline

The discipline " Technological methods of increasing wear resistance and restoration of machine parts" contains general ideas about the methods of controlling the structure and properties of materials in products under operational requirements.

2. Learning outcomes

A student who has studied the discipline should **know**:

- characteristic malfunctions of machine parts and the reasons for their formation;
- the structure of the process of restoring parts;
- technical and economic aspects of restoration of machine parts;
- methods of cleaning the surfaces of parts from contamination;
- basic and promising ways to restore and harden machine parts.

be able to::

- determine the type of defect in parts and an effective way to restore them;
- select the optimal parameters of the coating application mode by various methods.

own:

– use of acquired knowledge and skills in the processes restoration and hardening of machine parts.

3. Formed competencies:

SK-7 Know the basic concepts of equipment reliability, the causes of failure of machine parts, methods for their prevention and elimination.

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 laboratory and practical work with their oral defense, a written exam.