

TECHNOLOGY OF MACHINE ASSEMBLY

(name of discipline)

ANNOTATION TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-36 01-Technology of Mechanical Engineering

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	4	5	4
Semester	8	9	7
Lectures, hours	18	4	4
Practical classes (seminars), hours	18	4	4
Pass/fail, semester	8	9	7
Contact hours	36	8	8
Independent study, hours	64	92	92
Total course duration in hours / credit units	100/3	100/3	100/3

1. Course outline

The discipline "Technology of machine assembly" contains general ideas about issues related to the analysis of machine designs, development of technological processes of machine assembly, methods of quality assurance during assembly, methods of automation and mechanization of assembly work, design technological documentation.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- methodology and methodology of designing technological processes for machining parts and machine assembly;
- methods and means of automation of assembly operations and processes;
- peculiarities of determining the economic efficiency of technological processes of machine assembly;
- equipment and tools used for machine assembly;

be able to:

- develop route technological processes for assembling machine assemblies;
- analyze the cost-effectiveness of technological solutions;
- design technological documentation;

possess:

- methods for calculating the accuracy of assembled machine units;
- methods of rationing assembly operations.

3. Competencies

Mastering this discipline should ensure the formation of the following competence:

SK-5. To be able to choose the methods of obtaining blanks of machine parts, development of blanks drawings, the choice of methods of processing blanks, the necessary equipment and tools, calculation of allowances, cutting modes, the number of machines and their load, conducting dimensional calculations of technological process. SK-5.3 Know the basic concepts in the field of structural and technological dimensional relationships, methods of their identification and verification, tasks and methods of calculation of dimensional chains.

4. Requirements and forms of midcourse evaluation and summative assessment

Current and interim evaluations are conducted in written form through tests, quizzes, and written credit.