

TECHNOLOGY CNC PROCESSING

ANNOTATION TO THE CURRICULUM OF THE INSTITUTION OF HIGHER EDUCATION

Specialty 1-36 01 01 «Technology of mechanical engineering»

	Form of higher education		
	full-time (daily)	Correspondence	Correspondence abbreviated
Well	4	4	4
Semester	7, 8	7, 8	7, 8
Lectures, hours	52	14	24
Practical (seminar) classes, hours	34	8	16
Laboratory classes, hours	34	10	16
Classroom examination (semester, hours)	-	7 (2 hours), 8 (2 hours)	-
Exam, semester	7, 8	7, 8	7, 8
Classroom hours per academic discipline	120	36	56
Independent work, hours	108	192	172
Total hours per academic discipline / credit units	228/6		

1 Brief content of the discipline

The discipline "Technology of processing on CNC machines" contains information about the features of the use of technological equipment equipped with numerical control devices in existing and projected technological processes.

2. Learning outcomes

As a result of mastering the academic discipline, the student must

know:

- technological capabilities of various groups of CNC machines;
- features of designing technological processing processes using CNC machines;

be able to:

- develop control programs for processing parts on CNC machines;
- rationally use the capabilities of CNC equipment;
- carry out standardization of operations carried out on CNC equipment;

own:

- features of designing processing operations on machine tools and CNC machine tools;
- skills in developing the text of control programs for CNC machines.

3 Formed competencies

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

SK-6 To be able, for given production conditions, to choose methods and means of automating various design and manufacturing processes, to develop programs for machine tools with numerical control (CNC) of various types for machining parts.

SK-6.2 Know the methods of encoding technological information, the composition and structure of the frames of the control program, the coordinate systems of CNC machines and their relationships, programming processing on various CNC machines.

4. Requirements and forms of current and intermediate certification

Current and intermediate certification is carried out in written and oral-written form through tests, reports on laboratory work with their oral defense, tests, written exams.