

First design and technology practice

(course title)

COURSE SYLLABUS ABSTRACT

1-36 01 03 – Machine-building process equipment

(speciality code and name)

	STUDY MODE
	full-time
Year	2
Semester	4
Total course duration in hours / credit units	216/6

1. Course outline

The purpose of the practice: familiarization with the equipment and technology of the foundry, forging, welding, thermal and mechanical assembly shops; study of the organization and functioning of the mechanical assembly shop; familiarization with the manufacturing process of one complex part; acquisition of process design skills; collection and analysis of materials for subsequent implementation of course projects; acquisition of skills to independently make decisions on fulfillment of assigned tasks; identification and development of organizational abilities of students; Collect the required materials in accordance with the task to report on organizational practice.

The objectives of the practice are:

- 1) acquisition of skills on CNC machines;
- 2) study of the manufacturing processes of individual parts operating at the plant and the corresponding technical documentation;
- 3) study of the issue of manufacturing and design of tools;
- 4) study of the structures of specialized machines for the manufacture of tools and methods of their adjustment and adjustment;
- 5) familiarization with the issues of economics and organization of production management at the level of team, workshop, plant divisions.

2. Course learning outcomes

Upon completion of the course, students will be expected to know: development of technological processes for manufacturing parts and tools using computer equipment; designing a tool using computer equipment; tool materials used in the manufacture of parts and their heat treatment; advanced cutting tool designs and advanced manufacturing technology.

be able to: use technical and reference literature, sets of standards; process documentation for manufacturing of parts.

possess: skills on metal cutting machines, assembly stands and conveyors.

3. Competencies

SK-14 – Know the technological process of manufacturing one complex part, issues of economics and organization of production management.

4. Requirements and forms of midcourse evaluation and summative assessment

verbal-written: differentiated test.