

ORGANIZATION AND MANAGEMENT OF THE ENTERPRISE

(course title)

COURSE SYLLABUS ABSTRACT

Speciality 6-05-0714-02 Mechanical engineering technology, metal cutting machines and tools

(speciality code and name)

Technology of mechanical engineering

(concentration)

	STUDY MODE			
	full-time	part-time	part-time (shortened program) 2023	part-time (shortened program) 2025
Year	3	3	3	2
Semester	6	6	5	4
Lectures, hours	34	8	8	8
Practical classes (seminars), hours	34	8	8	8
Course paper, semester	6	6	6	5
Exam, semester	6	6	5	4
Contact hours	68	16	16	16
Independent study, hours	40	92	92	92
Total course duration in hours / credit units	108/3			

Specialty 6-05-0713-04 Automation of technological processes and production

Profiling Automation of technological processes and production in mechanical engineering

Specialty 6-05-0714-02 Engineering technology, metal cutting machines and tools

Profiling Equipment and technology of highly efficient material processing processes

	STUDY MODE	
	full-time	
Year	3	
Semester	6	
Lectures, hours	34	
Practical classes (seminars), hours	34	
Course paper, semester	6	
Exam, semester	6	
Contact hours	68	
Independent study, hours	40	
Total course duration in hours / credit units	108/3	

Specialty 6-05-0722-05 Production of products based on three-dimensional technologies

	STUDY MODE	
	full-time	
Year	3	
Semester	6	
Lectures, hours	34	
Practical classes (seminars), hours	16	
Exam, semester	6	
Contact hours	50	
Independent study, hours	58	
Total course duration in hours / credit units	108/3	

1. Brief summary of the academic discipline

Systemic foundations of organization. Types, methods and forms of production organization. Production process and its organization in space and time. Flow and automated production. Organization of production infrastructure. Quality management system. System of creation and development of new technology. Technical preparation of production. Planning of production preparation.

2. Learning outcomes

to know:

- features of the organization of various types of production,
- structure of an industrial enterprise in mechanical engineering,
- methods of planning and managing production processes in mechanical engineering,
- organization of mechanical engineering production and conducting practical work and research in this area,
- optimal construction of the production process at the enterprise in accordance with the specified rates, volumes and terms of its release,
- optimal organization of auxiliary production (tool, repair, transport, warehouse facilities, etc.), be able to:
- select a form of production organization for given conditions,
- evaluate the efficiency of the organization of existing production in mechanical engineering,
- develop an action plan for improving the organization of production at a mechanical engineering enterprise.
- carry out current work on designing and improving the organization of production units - workshops, sections, flow lines and individual work places,
- organize work on the implementation of developed schedules and providing units with everything necessary to implement them on time and in full,
- plan work on the technical preparation of new equipment and new technology,
- set tasks for automated information processing and performing the necessary calculations on a computer in the field of production organization,
- independently make decisions on issues related to the organization of production, possess rational methods for searching and using information in this area.

have the skills:

- formation of the management structure of the enterprise and its individual divisions,
- organization of management of sections of mechanical processing of parts and assembly of units taking into account the type and organizational form of production,
- assessment of the effectiveness of management of divisions and enterprises as a whole.

3. Formed competencies

For specialty 6-05-0714-02 "Mechanical engineering technology, metal-cutting machines and tools", specialization "Mechanical engineering technology":

- understand the systemic foundations of production organization, features of the organization of various types of production, design and technological preparation of production, technical and economic planning and production management

For specialty 6-05-0714-02 "Mechanical engineering technology, metal-cutting machines and tools", profile "Equipment and technology of highly efficient material processing processes":

- know the structure of an industrial enterprise, principles and trends in the development of innovative technologies in mechanical engineering, methods of applying these technologies

For specialty 6-05-0713-04 "Automation of technological processes and production", profile "Automation of technological processes and production in mechanical engineering":

- understand the systemic foundations of production organization, features of the organization of various types of production, design and technological preparation of production, technical and economic planning and production management

For specialty 6-05-0722-05 "Production of products based on three-dimensional technologies":

- carry out organizational and technical calculations for planning and regulating production, perform an assessment of the effectiveness of measures for the technical and organizational development of production

4. Requirements and forms of current and midterm assessment.

The following forms are used to diagnose competencies: written; oral and written.

The following diagnostic tools are used to assess the level of knowledge of students:

- conducting tests on individual topics;
- passing an exam.

