

EQUIPMENT FOR THREE-DIMENSIONAL TECHNOLOGIES

(course title)

COURSE SYLLABUS ABSTRACT

6-05-0722-05 «Technology for product manufacturing»

(speciality code and name)

Technology for product manufacturing

(concentration)

	STUDY MODE
	full-time
Year	3, 4
Semester	6, 7
Lectures, hours	68
Practical classes (seminars), hours	32
Laboratory classes, hours	16
Course project, semester	7
Pass/fail, semester	6
Exam, semester	7
Contact hours	116
Independent study, hours	122
Total course duration in hours / credit units	238 / 7

1. Course outline

The discipline contains general ideas about the methods and principles of applying design solutions in the design of technological equipment for three-dimensional technologies.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

- types, device and main elements of equipment for three-dimensional technologies, their functional indicators;
- features of technological processes implemented on equipment for three-dimensional technologies;
- principles of choosing the design of components and parts of equipment for three-dimensional technologies;

be able to:

- to predict the indicators of manufacturability, reliability and performance when choosing certain technological schemes of equipment for three-dimensional technologies;
- to determine the cause of failure of individual components of equipment for three-dimensional technologies and formulate requirements for the implementation of current and capital repairs;

to possess a skill:

- assignments and changes of settings and parameters of technological equipment for three-dimensional technologies;
- calculation of the main characteristics that determine the functional parameters of components, mechanisms and working elements of equipment for three-dimensional technologies.

3. Competencies

Master the basics of calculating and designing equipment and special technological equipment for three-dimensional technologies

4. Requirements and forms of midcourse evaluation and summative assessment

The current and intermediate attestation is conducted in oral, written and oral-written form through reports on practical and laboratory work with their oral defense, written assessment and examination.