DEVICE PARTS
(course title)

COURSE SYLLABUS ABSTRACT

6-05-0716-03 "Information and measuring instruments and systems"
(speciality code and name)

	STUDY MODE
	full-time
Year	**2**
Semester	4
Lectures, horns	34
Practical classes (seminars), hours	16
Тест semester	4
Contact hours	50
Independent study, hours	58
Total course duration in hours / credit units	108 / 3

1. Course outline

The discipline studies the basic concepts and provisions of the design process; designs, types, materials and methods of manufacturing parts and components of devices; interaction of device parts and physical processes accompanying their operation, as well as criteria for their performance and calculation; develops and strengthens design and construction skills; work with reference, methodological, educational and scientific-technical literature; application of theoretical knowledge to solving specific problems in the design of parts and mechanisms of devices.

2. Course learning outcomes

Upon completion of the course, students will be ejected to

know:

- main types of device mechanisms and general requirements for device parts;
- design, purpose, properties of parts and mechanisms of devices;
- types of supporting structures of devices and their classification.

Upon completion of the course, students will be ejected to know:
be able to: to possess a skill:

be able to:

- make technically sound decisions;
- use professional vocabulary;
- select types of connection of parts and principles of their implementation;

to possess a skill:

- selection of sizes and shapes of parts;
- development of load-bearing structures and body parts.

3. Competencies

Mastering this academic discipline should ensure the formation of competence: " Develop mechanisms, supporting structures, housings and body parts of instruments and devices."

4. Requirements and forms of midcourse evaluation and summative assessment

Requirements and forms of current and intermediate certification

Current certification is carried out in the form of surveys during practical classes, performance of control work requiring written answers to five questions of the task, performance of three calculation and graphic works, including calculations and working drawings of parts, protection of reports on calculation and graphic work, consisting of oral answers to questions.

The form of intermediate certification is a written test, the ticket of which includes five theoretical questions, the answers to some of them involve the implementation of diagrams and sketches.