MEDICAL DIAGNOSTIC DEVICES AND SYSTEMS
ANNOTATION TO THE EDUCATIONAL INSTITUTION'S CURRICULUM

Specialty 6-05-0716-03 Information measuring devices and systems

Specialization Information technologies and non-destructive testing and diagnostic systems

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	4		4
Semester	7		7
Lectures, hours	32		6
Laboratory classes, hours	16		4
Exam, semester	7		7
Contact hours	48		8
Guided independent study, hours, type/ semestr	60		98
Total course duration in hours / credit units	108/3		

1 Course outline

The purpose of studying this discipline is to develop knowledge about the purpose, composition, and principles of operation of the main types of medical devices, apparatuses, systems, and complexes used in domestic and foreign practice.

2 Course learning outcomes

As a result of mastering the academic discipline, the student must: know: the principles of construction and operation of medical devices used for the diagnosis and treatment of diseases; design and technological features of medical equipment; classification and areas of use of medical equipment, basic principles of construction, functioning, development and use of modern medical equipment; organization of maintenance of medical equipment; be able to: to characterize specific medical devices and systems designed for the diagnosis and treatment of diseases; to characterize the methods of construction of diagnostic and physiotherapy devices and devices; to evaluate the operability and maintainability of technical means; to have the skill to use the principles of construction and operation of medical devices, devices and systems used for the diagnosis and treatment of diseases.

3 Competencies

The study of this discipline should ensure the development of the following competencies: The ability to select technical diagnostic tools in accordance with the characteristics of the control object.

4 Requirements and forms of midcourse evaluation and summative assessment

When studying the discipline, the following methods are used: current attestation in the form of control papers (written form), laboratory work with oral defense; intermediate attestation in the form of a written and oral exam.