AMENDMENTS AND CHANGES TO THE CURRICULUM IN THE EDUCATIONAL DISCIPLINE
«INFORMATICS IN MEDICINE»
for the specialty 7-07-0911-03 «DENTISTRY»

for 2024/2025 academic year

Amendments and changes	Basis/Reason
1. Changes have been introduced into the Educational Discipline Curricular Chart (appendix 1)	Educational Plan for 2024/2025 academic year

The curriculum is revised and approved at the Medical and Biological Physics Department meeting (protocol # 10 of 30.05.2024)

Head of the Medical and Biological Physics Department M.V. Goltsev

APPROVED
Dean of the Medical Faculty for International Students O.S. Ishutin

Appendix № 1

ACADEMIC DISCIPLINE CURRICULAR CHART

Section, topic #	Section (topic) name	Number of class hours	Practical skills	Form of control	
		practical		of practical skills	of current / intermediate assessment
	Practical Classes				
1.	**Information and information processes. Information technologies in medicine**	**2**	Working in modern Windows operating system environment	interview	
2.	**Techniques of preparing docnments nsing word processing program Microsoft Word**	**4**			
2.1.	Creating, formatting, and editing official medical documents. Imbedded graphics	2	Working with Microsoft Office package applications and sharing information between applications of this package	electronic workshop	interview
2.2.	Automation of creating documents with complex structure	2	Creating text documents using MS Word	electronic workshop	
3.	**Techniques of working with spreadsheets in Microsoft Excel**	**6**			
3.1.	Creating, formatting, and editing spreadsheets. Processing of arrays of scientific research materials	2	Performing calculations using formulas and functions	electronic workshop	

3.2.	Graphic representation of medical data arrays	2	Creating chats using MS Excel	electronic workshop	
3.3.	Using templates for preparing official documents	2	Performing calculations using formulas and functions	electronic workshop	control work*
4.	**Statistical processing medical research data using spreadsheet program Microsoft Excel**	**6**			
4.1.	Descriptive statistics techniques. Estimation of the population parameters using the sample	2	Statistical processing biomedical data: determination of statistical characteristics of the sample and population	electronic test	interview
4.2.	Data analysis tools in MS Excel. Application of data analysis tools for statistical processing medical data. Graphical representation of the statistical distribution of the sample	2	Statistical processing biomedical data using built-in statistical functions in MS Excel and specialized data analysis tools	electronic workshop*	
4.3.	Correlation analysis techniques	2	Statistical processing biomedical data: establishing relationships	analysis of the obtained results, formulation of conclusion with oral defense	interview
5.	Technologies for organizing, storing and processing data in the MS Access database management system	**6**			
5.1.	Concepts of database construction. Creating medical databases and their processing. Using queries for data retrieval	2	Editing and viewing database table content	electronic workshop	interview
5.2.	Setting criteria for data retrieval in queries	2	Data retrieval using queries	electronic workshop	
5.3.	Summarizing in database	2	The use of pivot tables for the data analysis	electronic workshop	control work*

6.	**Preparing research paper presentation nsing MS Power Point**	**4**			
6.1.	Creating and saving presentations. Object management	2	Creating and demonstrating multimedia presentations of research papers using MS PowerPoint.	electronic workshop	
6.2.	Animation and multimedia in MS Power Point. Importing content from other Microsoft Office documents into a Power Point presentation	2	Creating and demonstrating multimedia presentations of research papers using MS PowerPoint.	electronic workshop*	
7.	**Basis of modelling in biology and medicine. Local and global network. Telemedicine. Systems of distance learning**	**2**	The use of educational and scientific information resources of local networks and the Internet	interview	
8.	**Information secnrity. Methods and techniques of information protection**	**2**	Mastering in working with methods of protecting information from unauthorized access to data and impact of malware in medical information systems.	interview	
9.	**Specialized medical software used in healthcare organizations**	**4**			
9.1.	Medical information systems used in healthcare organizations. Electronic patient record system	2	Working with the software of the physician's automated workplace	electronic workshop	
9.2.	Acquisition and processing primary accounting information	2	Working with the software of the physician's automated workplace	electronic workshop	credit
	Total hours	**36**			

*This is a mandatory form of current certification (each student will receive a mark)