

AMENDMENTS AND CHANGES TO THE CURRICULUM IN THE EDUCATIONAL DISCIPLINE
«INFORMATICS IN PHARMACY»

for the specialty 7-07-0912-01 «PHARMACY»
for 2024/2025 academic year

Amendments and changes	Basis/Reason
1. Changes have been introduced into the Explanatory Note (appendix 1)	Educational Plan for 2024/2025 academic year
2. Changes have been introduced into the Thematic Plan (appendix 2)	Educational Plan for 2024/2025 academic year
3. Changes have been introduced into the Educational Discipline Curricular Chart (appendix 3)	Educational Plan for 2024/2025 academic year

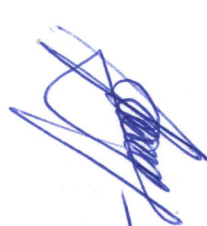
The curriculum is revised and approved at the department meeting of the department of Medical and Biological Physics (protocol # 10 of 30.05.2024)

Head of the department of Medical and Biological Physics


M.V. Goltsev

APPROVED

Dean of the Medical Faculty for International Students


O.S. Ishutin

Changes in the Explanatory Note

Total number of hours for the study of the discipline is 95 academic hours, of which 51 classroom hours and 44 hours of student independent work. Classroom hours according to the types of studies: lectures - 3 hours (including 0 hours of supervised student independent work (SSIW)), practical classes - 48 hours.

ALLOCATION OF ACADEMIC TIME ACCORDING TO SEMESTERS OF STUDY

Code, name of the specialty	semester	Number of academic hours						Form of intermediate assessment
		total	in-class	including			out-of-class self-studies	
				lectures	supervised student independent work	laboratory studies (practical classes)		
7-07-0912-01 «Pharmacy»	1	95	51	3	0	48	44	credit

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical
1. Practices to process the text documents by means of MS Word text editor	-	6
1.1. Creation, editing and formatting of office medical text documents. Inline graphics	-	3
1.2. The use of the styles. Creation of a list of contents. Creation of document templates	-	3
2. Excel spreadsheet techniques	-	6
2.1. Creation, editing and formatting of spreadsheets. Processing of scientific research materials. The use of the templates to design professional documents	-	3
2.2. Graphical representation of medical data sets	-	3
3. Statistical processing of medical research data by means of an Excel spreadsheet	1,5	9
3.1. Descriptive statistics methods	1,5	3
3.2. Graphical representation of statistical sample distribution		3
3.3. Study of the correlation analysis methods. Criteria for testing statistical hypotheses		3
4. Basic techniques for working with medical databases	-	6
4.1. Construction principles of the databases. Creation of medical databases and their processing	-	3
4.2. Work with a medical database. Search information with use of the query system and data filtering	-	3
5. Preparing a presentation of a scientific report by means of PowerPoint program	-	6
5.1. Create and save a presentation. Managing objects	-	3
5.2. Import content from other Office documents into a presentation file	-	3
6. Specialized medical software used in pharmacy. Medical information resources of local networks and the Internet. Information security issues	1,5	15

Section (topic) name	Number of class hours	
	lectures	practical
6.1. Local and global networks. Medical resources Internet. Online information search tools. Methods to protect information resources. Specialized software. Operating principles of the «Belarusian Pharmacy» software	1,5	3
6.2. Working as a manager of the «Belarusian Pharmacy» software	-	3
6.3. Working in cashier mode of the «Belarusian Pharmacy» software	-	3
6.4. Report preparation by means of the «Belarusian Pharmacy» software	-	3
6.5. Analysis, planning and forecasting of pharmacy activities	-	3
Total hours	3	48

ACADEMIC DISCIPLINE CURRICULAR CHART

Section, topic #	Section (topic) name	Number of hours		Supervised student independent work	Practical skills	Form of control	
		lectures	practical (laboratory or seminars)			of practical skills	of current / intermediate assessment
	Lectures						
1.	Statistical processing of medical research data by means of an Excel spreadsheet	1,5					
2.	Specialized medical software used in pharmacy. Medical information resources of local networks and the Internet. Information security issues	1,5					
	Practical lessons						
1.	Creation, editing and formatting of office medical text documents. Inline graphics		3	-	Work in a modern Windows operating system. Work in the application environment of the integrated MS Office suite, exchange information between applications of this software suite.	Electronic workshop	
2.	The use of the styles. Creation of a list of	-	3		Preparing text	Electronic	

	contents. Creation of document templates						
3.	Creation, editing and formatting of spreadsheets. Processing of scientific research materials. The use of the templates to design professional documents		3		documents using the MS Word text editor. Perform calculations using formulas and functions. Create charts in MS Excel.	Electronic workshop	
4.	Graphical representation of medical data sets		3		Creating charts in MS Excel application.	Electronic workshop	test
5.	Statistical processing of medical research data by means of an Excel spreadsheet. Descriptive statistics methods		3		Statistical processing of medical and biological data: determination of statistical characteristics of a sample and the general population, determination of the presence of relationships using built-in statistical functions of MS Excel and specialized data analysis tools.	Electronic test	
6.	Graphical representation of statistical sample distribution		3		Statistical processing of medical and biological data using built-in statistical functions of MS Excel and specialized data analysis tools.	Electronic workshop	
7.	Study of the correlation analysis methods. Criteria for testing statistical hypotheses		3		Statistical processing of medical and biological data:	Accounts of laboratory work with oral	

					determination of the presence of relationships.	defense *	
8.	Construction principles of the databases. Creation of medical databases and their processing		3		Editing and viewing the contents of a database table.	Electronic workshop	
9.	Work with a medical database. Search information with use of the query system and data filtering		3		Use of queries to select data in databases Use of pivot tables to analyze data	Electronic workshop	test *
10.	Create and save a presentation. Managing objects		3		Creating and demonstrating multimedia presentations to present scientific work in MS PowerPoint	Electronic workshop	
11.	Import content from other Office documents into a presentation file		3		Creating and demonstrating multimedia presentations to present scientific work in MS PowerPoint	Accounts of laboratory work with oral defense	
12.	Local and global networks. Medical resources Internet. Online information search tools. Methods to protect information resources.		3		Use of educational and scientific information resources of local networks and the Internet	Interview	
13.	Specialized software. Operating principles of the «Belarusian Pharmacy» software. Working as a manager of the «Belarusian Pharmacy» software		3		Possession of methods of protection against unauthorized access to data, the impact of malware in medical information systems	Interview	

14.	Working in cashier mode of the «Belarusian Pharmacy» software			3	Work in the program of automated workplace of a specialist	Electronic workshop	
15.	Report preparation by means of the «Belarusian Pharmacy» software			3	Work in the program of automated workplace of a specialist	Electronic workshop *	
16.	Analysis, planning and forecasting of pharmacy activities			3	Work in the program of automated workplace of a specialist	Interview	Credit
Total hours		3	48				

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