

**Thematic Plan of Seminar Classes for the course «Medical informatics»
for students admitted in 2025 in the educational program
31.05.01 General Medicine
specialization (profile): General Medicine (Specialist Degree Program),
full-time mode of study for the 2026–2027 Academic Year**

№	Thematic blocks	Practical Training within the Thematic Block¹	Hours (academic)
Semester 3			
1.	Theoretical foundations of medical informatics, medical aspects of computer use. Work in the Electronic Information Educational Environment of the university. Basic processing techniques for basic types of information: working with files and folders, archiving data	-	4
2.	Preparation of medical documents using Microsoft Office Word text editor. Features of using text fonts, paragraph settings, page numbering, creating tables of contents, placing pictures and tables when creating publications.	PT	4
3.	Basics of paperwork management. Additional features of Microsoft Office Word text editor, collaborative working with the document.	PT	4
4.	Progress check.	PT	4
5.	Microsoft Office Excel spreadsheets. Basic techniques for creating and formatting data in spreadsheets.	PT	4
6.	Computing in Microsoft Office Excel spreadsheets, creating formulas, automating calculations.	PT	4
7.	Using embedded functions in Microsoft Office Excel. Creating diagrams.	PT	4
8.	Local and global computer networks. Basic concepts and principles of the Internet. Medical resources of the Internet. Progress check.	PT	4
9.	Informational support for a doctor's research, basic medical statistics. Methodology of statistical research. Statistical Tables.	PT	4
10.	Relative values. Graphic image of data.	PT	4
11.	Simulation of physiological processes. Informative mode	PT	4
12.	Progress check.	PT	4
13.	Health Information Systems (HIS). Organizational and Legal Support. Fundamentals of Databases.	-	4
14.	Database management systems (DBMS).Part 1	PT	4
15.	Database management systems (DBMS).Part 2	PT	4
16.	Final class (credit)	-	4
Total			64

¹ – PT (Practical Training)

² – One thematic block includes several sessions conducted in the form of practical training. The duration of each session is 45 minutes, with breaks of at least 5 minutes between sessions. The duration of one thematic block is one day.

Reviewed and approved at the meeting of the department of clinical engineering and artificial intelligence technologies, protocol of «19» may 2026r. № 10.

Head of the department of clinical engineering and
artificial intelligence technologies



S.A. Bezborodov