

MEDICAL INFORMATICS

LECTURE FOR INTERNATIONAL STUDENTS

1. Introduction to medical informatics. Key terms and concepts.
2. The concept of Informatization. Strategy of transition to information society. Information technology hardware.
3. Information Technology Software. Windows operating system. General principles. Standard and utility programs. Word text editor. Excel spreadsheets.
4. Local and global information networks. Using information resources of the Internet to solve various medical problems.
5. Computer-mediated systems in medicine. Ways and means of informatization in medicine and Health care.
6. Overview and classification of medical information system. Information security in a health system.
7. Modeling of physiological processes and it's use in practical medicine.
8. Typical tasks of Informatization of medical technological process in medical-prophylactic institution.
9. Information Support for Diagnostic and Therapeutic processes. The Use of Information Technology Systems in the Work of the Medical Department of a Medical and Preventive Treatment Institution.
10. Automated medical and technological systems of departments of clinical laboratory research and radiology.

MEDICAL INFORMATICS **for practical studies**

1. Safety and fire safety briefing when working in a computer class.
2. Microsoft Windows operating system: general principles of work, standard programs and functions of the Windows environment, the basic scope of actions.
3. Microsoft Office suite applications. Office application common features: Ribbon and tabs, Office button, quick access toolbar, basic keyboard shortcuts, and standard actions in office applications.
4. Applications of the office suite Microsoft Office. Microsoft Office Word word processor: creating, markup, and editing a document.
5. Text editor Microsoft Office Word: formatting a document, inserting objects.
6. Text editor Microsoft Office Word: creating graphic images, working with tables. Creation of comprehensive medical documents.
7. Examination of the section «Windows operating system. Microsoft Office Word».
8. Microsoft Office Excel spreadsheets: data, creating and editing tables, formulas, calculations.
9. Microsoft Office Excel spreadsheets: building diagrams, inserting objects.
10. Microsoft Office Excel spreadsheets: methods of statistical data processing. Database. Microsoft Office Excel Spreadsheets: Sorting and Filtering Data.
11. Examination in the section «Microsoft Office Excel».
12. Application programs office suite Microsoft Office. Program for creating and conducting Microsoft Office PowerPoint presentations: structure and presentation design.
13. Work on the Internet. The basic principles of working with Internet search engines. Work with email.
14. Database. Microsoft Office Access Database Management System: Creating a Single-Table Database.
15. Database. Microsoft Office Access database management system: entering and viewing data through a form, generating sample queries and reports for a single table database.
16. Automated systems (AS) in healthcare. AS «Clinic». Automated workplace (AWP) «Registry».
17. Examination in the section «Databases and medical information system». Offset.

Head of Department
public health and the history of medicine,
MD, professor



A.N. Redko