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Информация о владельце:
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Должность: Ректор
Дата подписания: 28.05.2026 12:33:10
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

Federal State Autonomous Educational Institution of Higher Education

PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA

NAMED AFTER PATRICE LUMUMBA

RUDN University

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Bioethics

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Dentistry

higher education programme profile/specialisation title

2026 г.

1. COURSE GOAL(S)

The course "Bioethics" is included in the specialty program "Dentistry" in the field of 31.05.03 "Dentistry" and is studied in the first semester of the first year. The discipline is implemented by the Department of Management and Economics of Pharmacy. The discipline consists of 4 sections and 9 topics and aims to study the basic principles of biomedical ethics, moral issues and dilemmas that arise in the medical profession, as well as approaches to their resolution.

The purpose of mastering the course is to familiarize students with the history of the formation and theory of bioethics, as well as with the main disciplines included in bioethics: medical ethics, nursing ethics, professional ethics, philosophical anthropology; formation of professional consciousness of a medical professional, attitudes towards following the norms of interaction, cooperation, tolerance and skills of using ethical principles in communication with colleagues and patients; the ability to solve moral dilemmas that arise in the course of the work of doctors and medical staff, as well as familiarization with the ethical aspects of doing business in the healthcare sector.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Bioethics" is aimed at the development of the following competences /competences in part: GC-5, GC-11, GPC-1, GPC-2.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-5	capable to analyze and take into account the diversity of cultures in the process of intercultural interaction.	GC-5.1 Interprets the history of Russia in the context of global historical development. GC-5.3 Builds social and professional interaction based on domestic and international legislation in the field of healthcare and the specifics of intercultural interaction.
GC-11	Capable of forming an intolerant attitude towards manifestations of extremism, terrorism, and corrupt behavior, and countering them in professional activities	GC-11.1 Uses the legal framework for combating corruption; ethical standards for relations between a doctor and a patient (or their legal representatives); GC-11.2 Uses practical experience in communicating with patients (or their legal representatives) in various situations;

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GC-5	Capable to analyze and take into account the diversity of cultures in the process of intercultural interaction		History of Russia; Philosophy; History of Religions of Russia; Foreign Language (professional level)**; History of Medicine;
GC-11	Capable of forming an intolerant attitude towards manifestations of extremism, terrorism, and corrupt behavior, and countering them in professional activities		Jurisprudence

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Bioethics” is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (***full-time training***)*

Type of academic activities	Total academic semesters/training hours modules		Type of academic activities
			1
Contact academic hours	51		51
Lectures (LC)	17		17
Lab work (LW)	0		0
Seminars (workshops/tutorials) (S)	34		34
Self-studies	15		15
Evaluation and assessment (exam/passing/failing grade)	6		6
Course workload	academic hours	72	72
	credits	2	2

5. COURSE CONTENTS

Table 5.1. Discipline (module) content by type of study work

Course module title	Course module contents (topics)	Academic activities types
Section 1 Theoretical Foundations of Medical Bioethics	1.1. Introduction to Bioethics. Historical stages and forms of biomedical ethics. Regulatory regulation of medical bioethics. Principles of biomedical ethics. Rules of bioethics. 1.2. Models of doctor-patient relationships. Reasons for the emergence of bioethics. Basic models and decision-making problems. Specificity of doctor-patient relationships in different areas of medicine.	LC, S
Section 2 Bioethics of medical research	2.1. Bioethical aspects of preclinical research in medicine. Regulatory regulation of preclinical research in the Russian Federation: Russian and international documents. The concept of solving ethical problems in the use of animals in research (Russell-Burch). Alternative methods: organs on chips, organoids. 2.2. Bioethical aspects of clinical research in medicine. Regulatory regulation of clinical research in the Russian Federation: Russian and international documents. Ethical committees. Types of clinical research. Phases of clinical research. Ethical issues in clinical research. The reference method for designing clinical research. Ethics of clinical research involving children.	LC, S

<p>Section 3 Bioethical problems of modern medicine</p>	<p>3.1. Bioethical problems of human reproduction intervention. Regulatory regulation of human reproduction interventions. Status of the human embryo and other approaches to the beginning of the definition of human existence. Bioethical problems of assisted reproductive technologies.</p> <p>3.2. Moral problems of death and dying. The main ethical issues of thanatology. Ethical aspects of determining the moment of death. Ethical aspects of palliative care, hospices. Euthanasia.</p> <p>3.3. Bioethics and genetics. Ethical problems of the application of genetics in medicine for therapeutic, diagnostic and preventive purposes. Biobanking, genetic screening, genetic passporting, genealogical method, prenatal diagnostics. The problem of the confidentiality of genetic information.</p> <p>3.4. Bioethical problems of surgery and transplantology. Regulatory regulation of the ethical aspects of surgery and transplantology. Presumption of consent in transplantology. Ethical aspects of living and cadaveric organ donation. International criteria for organ distribution. Organ donation shortage mitigation programs.</p> <p>3.5. Bioethical aspects of providing assistance in emergency situations (ES). Regulatory documents that regulate the ethical principles of providing assistance in ES. Factors that determine the specifics of medical and evacuation measures in ES and armed conflicts. The International Red Cross and Red Crescent Movement (International Red Cross - IRC), its components, and their charters. Symbols of special protection of medical staff and humanitarian workers in conflict zones. ICRC project "Providing medical care under threat".</p> <p>3.6. Bioethics and Epidemiology. Ethical Aspects of Epidemiology. Ethical Issues that may arise in the implementation of the principle of confidentiality in the relationship between a doctor and a patient with infectious pathology. Ethical Issues that may arise in the implementation of the principle of distributive justice in epidemiology. Respect for Human Rights in the Outbreaks of Particularly Dangerous Infections. Risks associated with the spread of particularly dangerous infections (PDI) and their impact on public health.</p> <p>3.7. Ethics and Psychiatry. Historical Aspects. Regulatory documents governing the ethics of psychiatry. Key ethical issues: distinguishing between normality and pathology, compulsory treatment and hospitalization, informed consent, confidentiality of information, and the stigmatization of patients. Ethical considerations for new treatment methods in psychiatry.</p>	<p>LC, S</p>
<p>Section 4 Ethics of digital healthcare</p>	<p>4.1. Bioethical issues in the context of digitalization of healthcare. Bioethical principles of using "big data" in healthcare. Bioethical challenges and consequences of using artificial intelligence and large multimodal models (LMM) in medicine. The main risks associated with the use of artificial intelligence by patients and non-specialists for medical purposes. Azilomar principles. Models of responsibility associated with the use of AI in healthcare. Objective and subjective principles of responsible attitude towards artificial intelligence (AI) in practical healthcare. Code of Ethics for the Application of AI in the Health Care Sector.</p>	<p>LC, S</p>

* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Seminar	n auditorium for seminar-type classes, group and individual consultations equipped with a set of specialized furniture and multimedia presentation equipment.	magnetic whiteboard, multimedia equipment presentation
Self-studies	An auditorium for students' independent work (can be used for seminars and consultations), equipped with a set of specialized furniture and computers	

7. RECOMMENDED SOURCES FOR COURSE STUDIES

Main readings:

1. Ushakov, E. V. Bioethics : textbook and workshop for universities / E. V. Ushakov. — Moscow : Yurayt Publishing House, 2023. — 294 p. — (Higher Education). — ISBN 978-5534-16998-0. — Text : electronic // Yurayt Educational Platform [website]. — URL: <https://urait.ru/bcode/532175> (accessed on: 11.12.2024).

1. 2. Moiseev, V. I. Bioethics / textbook for use in educational institutions that implement basic professional educational programs of higher education at the specialist level in the fields of training 31.05.01 "Medicine", 31.05.03 "Dentistry", and at the bachelor's level in the field of training 39.03.02 "Social Work", in 2 volumes / V. I. Moiseev, O. N. Moiseeva; Ministry of Science and Higher Education of the Russian Federation. — Moscow: GEOTAR-Media, 2021 [i.e. 2020]. —; 25. — (Textbook); ISBN 978-5-9704-6037-5.

2. 3. Vigel N. L. Bioethics / textbook, for students of medical universities / N.L. Vigel, G.N. Shapoval; Autonomous non-profit organization of additional professional education "Interregional Center for Innovative Technologies in Education". — Kirov: MCITO Publishing House, 2019. — 1 electronic optical disk (CD-ROM); 12. — ISBN 978-5-907091-79-5

Additional readings:

1. Ethics and governance of artificial intelligence for health: WHO guidance ISBN 978-92-4-002920-0 (electronic version); ISBN 978-92-4-002921-7 (print version), World Health Organization, 2021.-150 p. 2. Ethics of Public Health Surveillance: New Guidelines / Fairchild, Amy L., et al. // The Lancet Public Health, 2021, Vol. 2, Issue 8, pp. e348-e349.

3. Tsatsenko, L. V. Bioethics and Fundamentals of Biosafety: A Textbook / L. V. Tsatsenko. — 3rd ed., Ster. — St. Petersburg: Lan, 2022. — 92 p. — ISBN 978-581141956-2. — Text: electronic // Lan: electronic library system. — URL: <https://e.lanbook.com/book/212768> Access mode: for authorized users. 4. Biomedical law in Russia and abroad : a monograph / G.B. Romanovsky, N.N. Tarusina, A.A. Mokhov [et al.]. - Electronic text data. - M. : Prospekt, 2019. - 368 p. - ISBN 978-5-392-29560-9 : 450.00

Resources of the Internet information and telecommunication network:

1. RUDN EBS and third-party EBS, to which university students have access based on the concluded contracts
 - RUDN Electronic Library System – RUDN EBS <https://mega.rudn.ru/MegaPro/Web>
 - University Library Online EBS <http://www.biblioclub.ru>
 - EBS Yurayt <http://www.biblio-online.ru> - Student Library Consultant EBS www.studentlibrary.ru
 - EBS "Znaniye" <https://znanium.ru/>
 2. Databases and search engines
 - Sage <https://journals.sagepub.com/>
 - Springer Nature Link <https://link.springer.com/>
 - Wiley Journal Database <https://onlinelibrary.wiley.com/>
 - Scientometric database Lens.org <https://www.lens.org>
- *Educational and methodological materials for students' independent work while studying the discipline/module**: 1. Lecture course on the discipline "Bioethics".
- * - All educational and methodological materials for students' independent work are posted in accordance with the current procedure on the discipline's page in **TUIS!**

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