

**Academic programme
component**

**31.05.01 General Medicine
programme**

**B1.0.02
discipline code**

SYLLABUS

**Discipline
(module)**

Bioethics

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signature

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Clarification

Discipline volume: 3 credit points

- 1. Discipline (module) training results** correlated with the indicators of competencies achievement determined by the educational programme

Competency	Indicators of competency achievement	Discipline (module) training results
УК-1: Can design action plans and apply systematic approach to critical analysis of problem situations	ИД-1ук-1 Applies systematic approach in research and analytical activities to solve assigned tasks	<p>To know: the main provisions of the Russian Federation Code of Ethics, the theoretical foundations of the medical bioethics norms</p> <p>To be able to: analyse the situation from the point of medical bioethics view, identify violations of ethical standards</p> <p>To have: conflict resolution skills arising from violations of bioethical norms</p>
УК-5: Can analyse and consider cultural diversity in the process of intercultural cooperation	<p>ИД-1ук-5 Understands, analyses and respects the cultural diversity in the society</p> <p>ИД-2ук-5 Constructively interacts with people taking into account their culture, ethnicity, and religion to successfully complete public and professional tasks</p> <p>ИД-3ук-5 Navigates intercultural interaction</p>	<p>To know: the approaches to understanding ethical problems in the field of medicine with regard to nation, religion, and culture</p> <p>To be able to: analyse different situations in medical practice from the point of view of cross-cultural contradictions</p> <p>To have: skills in finding solutions in the field of intercultural communication within medical practice</p>

2. Discipline (module) contents

Topic 1. The History of Bioethics. Models of Doctor-patient Interaction. The Importance of Bioethics in the Practice of a Modern Doctor.

Topic 2. Bioethical Problems at the Beginning of Life. The Views on Determining the Moment of the Beginning of Human Life and Their Reflection in the Norms of Medical Bioethics: The Formation of the Cardiovascular System, Respiratory Organs, and Nervous System. The Idea of the Early Stages of Embryonic Development as the Starting Points at the Beginning of Life, the Problems of Accepting Such Ideas.

Topic 3. Bioethics of Death and Dying. Criteria of Death. Bioethical Problems of Maintaining Life in the Absence of Basic Physiological Functions. The Role of a Doctor in Determining the Moment of Death and Treatment Prospects

Topic 4. Bioethics of Assisted Reproductive Technologies. The Emergence of Bioethical Issues in Assisted Reproductive Technologies. Attitudes Towards Assisted Reproductive Technologies in Various Religions. The Interrelation of Bioethical Aspects and Legal Norms in Matters of Assisted Reproductive Technologies and Human Cellular Engineering. The Importance of Assisted Reproductive Technologies in the Life of Modern Society.

Topic 5. Bioethics of Organ, Tissue, and Cell Transplantation. The Attitude to Organ and Tissue Transplantation, Blood Transfusion in Various Religious Cultures. Bioethics and Legal Norms in Matters of Transplantation. International Standards and Legislation in the Field of Transplantation. Ethical Approaches to Decision-Making on the Allocation of Donor Organs. Donor-recipient Interaction

Topic 6. Bioethics of Gene Therapy: Development of Gene Therapy Methods, Risk Assessment, Failures of Gene Therapy

Topic 7. Bioethics of Medical Research. International Standards and Legislation Regulating the Ethical Aspects of Medical Research. Cell Cultures as Means of Reducing the Tension of Ethical Problems in Conducting Medical Research. Bioethical Aspects of the Use of Experimental Animals in Medical Research.

3. Training support materials

- multimedia presentations on the discipline (module) are available on MAU LMS Moodle;
- practical training manuals are available on MAU LMS Moodle;
- learning materials are available on MAU official website at «Информация по образовательным программам, в том числе адаптированным».

4. Discipline assessment materials

Discipline assessment materials is a separate document within the educational programme, it includes:

- a list of competencies indicating the stages of their achievement within the discipline (module);
- formative assessment tasks;
- interim assessment tasks;
- tasks for internal assessment of education quality.

5. The list of main and supplementary literature (printed sources, electronic textbooks and (or) resources of Digital Library Systems)

Main literature:

1. Rukovodstvo po medbioetike Ucheb. posob./ Red. Yu.M. Lopuin; per. s angl.T.V. Bul'gina.-M.:Geotar, 2006.-128 s.
2. Bioetika. Voprosy i otvety. Ucheb. posob./ Sost. A.Ya. Ivanyushkin, L.F. Kurilo i dr.- M.:Prpogress,2005.-64 s.
3. Shamov, I.A. Bioetika. Ucheb. posob.-M.:Meditsina, 2002, 2009.-369 s.
4. Ermolaeva G.I., Meshcheryakova T.V. Kurs lektsii po bioetike.Uchebno-metodicheskoe posobie.-Tomsk, 2005.
5. Medical Ethics 4th ed / A. Campbell, G. Gillett, G. Jones. Published: June 2005, Publisher: Oxford University Press Australia & New Zealand.

Supplementary literature:

1. Biomeditsinskaya etika/Pod red. V.I. Pokrovskogo, Lopukhina Yu. M.- M.: Meditsina, 1999.
2. Bioetika: printsipy, pravila, problemy / Pod red. B.G.Yudina. - M.: Editorial URSS, 1998.
3. Vvedenie v bioetiku. / Pod red. B.G. Yudina i P.D. Tishchenko.- M., 1999.
4. Deontologiya v meditsine. V 2-kh tt. M.: Meditsina, 1988.
5. Zil'ber A.P. Etika i zakon v meditsine kriticheskikh sostoyanii . «Etyudy kriticheskoi

- meditsiny». T. 4. Petrozavodsk: Izd-vo PetrGU,1998.
6. Meditsinskaya etika i deontologiya / Pod red. G.V. Morozova i G.I. Tsaregorodtseva. M.: Meditsina, 1983.
 7. Siluyanova I.V. Bioetika v Rossii: tsennosti i zakony. - M., 1997.
 8. Orlov A.N. Klinicheskaya bioetika. M.: Meditsina, 2003.
 9. Sidorov P.I. Pravovaya otvetstvennost' meditsinskikh rabotnikov: Uchebnoe posobie. M.: MEDpress-inform, 2004.

6. Professional databases and information reference systems

- 1) The state legal information system - the official website of legal information. Online access at <http://pravo.gov.ru>
- 2) Information system "Single window of access to educational resources". Online access at <http://window.edu.ru>
- 3) Legal reference system "Consultant Plus". Online access at <http://www.consultant.ru/>
- 4) MAU library's electronic catalogue, with the opportunity to get the printed version of the publication in the library's reading rooms.
- 5) University Library Online at <https://biblioclub.ru>
- 6) Electronic library system "Student Consultant" Electronic library of the technical university" – <http://www.studentlibrary.ru/>
- 7) Electronic database "EBSCO" – <http://search.ebscohost.com/>
- 8) Articles of the Russian Federation Code of Ethics for doctors. Online access at <https://normativ.kontur.ru/document?moduleId=1&documentId=257616>

7. The list of licensed and openly distributed software, including domestic software

1. Microsoft Windows Vista Business Russian Academic OPEN operating system
2. Microsoft Office 2007 Russian Academic OPEN Office.
3. Microsoft Office 2010 Russian Academic OPEN Office.
4. ABBYY FineReader Corporate 9.0 Optical Text Recognition system
5. Dr.Web Desktop Security Suite Antivirus

8. Ensuring mastering the discipline for people with special needs

Students with special needs are provided with printed and (or) electronic educational resources adapted to their needs.

9. The material and technical support of the discipline (module) is presented in the appendix to the academic programme "Material and technical conditions for the implementation of the academic programme" and includes:

- technically equipped classrooms for conducting training sessions provided for the Specialist programme;

- spaces for self-study work equipped with computer, Internet connection and access to MAU LMS Moodle;

Replacement of the equipment with its virtual counterparts is allowed.

10. Study load distribution by the type of educational activity

Table 1. Study load distribution

Type of educational activity	The discipline (module) study load distribution by the forms of training			
	Full-time			
	Semester / Year	Total hours	Semester / Year	Total hours
	1/1			
Lectures	14	14		
Seminars	22	22		
Self-study	36	36		
Preparation for interim assessment	36			
Total hours on discipline	108	108		
/ in the form of seminars	22	22		
Interim and formative assessment				
Examination	+			

The list of seminars by the forms of education

No	Seminar topics
1	2
	Full-time
1	Models of Doctor-Patient Interaction: Historical and Cultural Aspect
2	The Importance of Ethical Standards in the Life of a Modern Doctor
3	Criteria for the Beginning of Human Life and Their Reflection in Medical Practice
4	Criteria for Determining Human Death: Medical, Legal, And Ethical Aspects
5	Bioethics of Palliative Care
6	Assisted Reproductive Technologies and Their Reflection in the Life of Society
7	Bioethical Aspects of the Use of Donor Organs
8	Donor-recipient Interaction in Transplantation
9	Ethical Aspects of Transplantation
10	Ethical Standards in Children Organ Transplantation
11	Bioethics in Medical Research