Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation

APPROVED
Vice-Rector for Academic Affairs
_____ E.S. Bogomolova
31 August 2021

WORKING PROGRAM

Name of the academic discipline: **BIOETHICS**

Specialty: **31.05.01 GENERAL MEDICINE**

Qualification: **GENERAL PRACTITIONER**

Department: **PSYCHIATRY**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **72 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for the specialty **31.05.01 GENERAL MEDICINE**, approved by Order of the Ministry of Science and Higher Education of the Russian Federation № 988 of August 12, 2020.

Developers of the working program:
Kasimova Lala Narimanovna, Doctor of Medical Sciences, Professor, Head. department of Psychiatry.

Karpukhin Ivan Borisovich, Candidate of Medical Sciences, Associate Professor of the Department of Psychiatry.

The program was reviewed and approved at the department meeting (protocol No. 01 June 2021

Head of the Department of Psychiatry,
Doctor of Medical Sciences, Professor _____ L.N. Kasimova
(signature)

01 June 2021

AGREED
Deputy Head of EMA ph.d. of biology _____ Lovtsova L.V.
(signature)

01 June 2021

1. The purpose and objectives of mastering the academic discipline bioethics:

1.1. The purpose of mastering the discipline: participation in the formation of the following universal and general professional competencies among students: UK-1, GPC-1.

Also, the learning process has as its goal the acquaintance of the future specialist with the ethical and humanistic foundations of medicine, the content of the internationally recognized ethical standard of medical practice and training to use it in difficult problematic situations of professional activity.

1.2. Tasks of the discipline:

1) to acquaint students with the range of problems and the latest foreign and domestic research in the field of biomedical ethics, principles and approaches to their solution;

2) familiarize with the main international and domestic documents regulating the ethical and legal issues of medicine;

3) reveal the new content of traditional ethical norms, principles and rules of medical ethics in terms of changing models of the relationship between the doctor and the patient;

4) to form in students a sense of the highest social, legal, moral and professional responsibility in the process of future activities;

5) develop students' communication skills aimed at solving the ethical aspects of professional communication in the field of medicine;

6) contribute to the formation of personal readiness for future professional activities.1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

- main international and domestic documents regulating the ethical and legal issues of medicine;
- subject, categorical apparatus and methods of modern bioethics;
- the history of the development of bioethics as a science;
- basic principles, rules and norms of biomedical ethics;
- the essence of the moral problems of medical genetics and clinical medicine;

principles of a patient-oriented model of doctor-patient relations in modern healthcare;

- basic communicative and ethical principles of a doctor's work in medical practice, including in the digital environment;
- ethical aspects of digitalization and robotization in medicine;
- ethical principles of biomedical research.

Be able to:

- be guided by the principles of humanism and universal values in the implementation of their professional activities;
- to analyze from the standpoint of modern biomedical ethics the problems that arise in the course of professional activity;
- use moral and ethical norms, rules and principles of biomedical ethics and professional conduct in their practice, respect confidentiality, incl. in the conditions of information security of digital medicine;
- apply the data of the main ethical documents of international and domestic professional medical associations and organizations;
- to conduct discussions in conditions of pluralism of opinions, using various ethical methods of resolving conflicts, putting the interests of patients in the spotlight;
- show tact and delicacy when communicating with patients and relatives of sick people in professional activities;
- uphold the moral dignity and purity of the medical profession;

Possess:

skills of moral culture, presentation of an independent point of view, analysis and logical thinking, moral and ethical reasoning, discussions;

- principles and rules of biomedical ethics;
- skills for solving moral dilemmas generated by the progress of modern biomedicine;
- ways of tolerant perception of the ethical image of the patient and approaches to interaction with different groups of patients..

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline belongs to the basic part of Block 1 of the GEP HE (B1.B2), studied in the 2nd year, in the 4th semester.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

- history,
- jurisprudence,
- Economy,
- foreign language,
- Psychology and Pedagogy,
- Philosophy,
- Physics-mathematics,
- Medical informatics,
- History of medicine
- Chemistry,
- Biology,
- Biochemistry,
- normal physiology
- Clinical aspects of biochemistry,
- Methods for studying physiological functions,
- Caring for the sick
- Nursing work
- Bioorganic chemistry,
- Fundamentals of medical genetics,
- First aid,
- Fundamentals of telemedicine,
- Bioinformatics in medicine,

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:

- Medical rehabilitation and exercise therapy,
- Faculty of Surgery,
- Fundamentals of transplantology,
- Topographic anatomy and operative surgery,
- Microbiology, virology,
- Immunology,
- Pharmacology,
- Pathological anatomy, clinical pathological anatomy,
- Pathophysiology, clinical pathophysiology,
- Fundamentals of clinical genetics,
- Medical ecology,
- hygiene,
- Public health and healthcare, health economics,
- Epidemiology,

- Clinical pharmacology,
- Dermatovenereology,
- Neurology, medical genetics, neurosurgery,
- Psychiatry, medical psychology,
- Ophthalmology,
- Forensic medicine,
- Obstetrics,
- Gynecology,
- Pediatrics,
- Propaedeutics of internal diseases,
- Faculty therapy, occupational diseases,
- Hospital therapy, endocrinology,
- Infectious diseases
- Phthisiology,
- General surgery,
- Anesthesiology, resuscitation, intensive care,
- Hospital surgery
- Dentistry,
- Oncology, radiation therapy,
- Traumatology, orthopedics,
- Pediatric surgery,
- X-ray diagnostics,
- Clinical laboratory diagnostics,
- Oncohematology,
- Rheumatology,
- Fundamentals of first aid
- Evidence-based medicine
- Organizational aspects of the activities of the district doctor,
- Conflictology,
- Examination methods in geriatrics,
- Fundamentals of management,
- Molecular physiology,
- Emergency conditions in therapy,
- Dietetics,
- Molecular biochemistry,
- Fundamentals of gastroenterology,
- Functional diagnostics in the clinic of internal diseases,
- Clinical immunology,
- Regenerative medicine,
- Integrative methods in medicine,
- Humanities research,
- Analytical research methods
- Educational practices:
- Patient care. Therapy,
- Patient care. Surgery
- Production practices:
- Physician's assistant. Surgery
- Nursing Assistant. Therapy
- Nursing Assistant. Surgery
- Nurse Assistant. Therapy
- Nurse Assistant. Surgery,
- Nurse Assistant. Therapy,

- Nurse Assistant. Surgery,
- Physician's assistant. Obstetrics,
- Physician's assistant. Therapy,
- Physician assistant in an outpatient clinic

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) and general professional (GPC)

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1 Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	ID-1 UC-1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis ID-2 UC-1.2 Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience ID-3 UC-1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems		- the essence of ethical and moral problems and discussions, methods of argumentation; - categorical apparatus, history of development, basic principles and fundamental documents of modern bioethics.	- apply various ethical methods of resolving difficult professional situations; - develop an action strategy based on the analysis of bioethical risks and in compliance with the principles of biomedical ethics.	- skills of moral and ethical argumentation, discussions; - ways of moral and ethical choice.
2.	GPC-1 Able to implement moral and	ID-1 GPC-1.1 Knows: basics of medical ethics and deontology;		- the main documents regulating the ethical	- use the norms, rules and principles	- norms, principles and rules of biomedical

	legal norms, ethical and deontological principles in professional activities	fundamentals of legislation in the field of healthcare; legal aspects of medical activity ID-2 GPC-1.2 Knows how to: apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representatives) ID-3 GPC-1.3 Has practical experience: solving standard problems of professional activity based on ethical standards and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of legal aspects of medical practice		and legal issues of the doctor's activities and the situation of the patient, a set of knowledge on the ethical and psychological problems of interaction between the doctor and the patient.	of bioethics and deontology in their professional activities; - apply the basic ethical principles and rules in conducting scientific research; - be guided by the principles of humanism in the implementation of their professional medical activities.	ethics, understanding of the functioning of various models of interaction between a doctor and a patient; - skills to apply the basic ethical principles and rules for conducting scientific research based on learning situations.
3.						

4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
	UC-1	Section 1. Bioethics	1.1. The subject of bioethics as a theoretical science and practice of a

	GPC-1	in modern healthcare: concept, status, structure, content	doctor, the history of bioethics, current problems. Problems and norms of bioethics. 1.2. Basic principles and rules of bioethics. Models of bioethics. 1.3. Life and health as a value. Protecting the rights of patients. Embryo status problem. Ethical problems of intervention in human reproduction. Moral problems of modern genetics. New eugenics. Problems of protection of personal data and genetic information in the context of digital medicine. 1.4. Actual problems of bioethics and approaches to their solution in clinical medicine (the problem of euthanasia, cloning, organ transplantation, medical examination, medical errors, etc.). Modern digital technologies of medicine and ethical problems of their application (artificial intelligence, robotization, bioprinting, neural interfaces, etc.)
	UC-1 GPC-1	Section 2. Ethics of scientific research in medicine	2.1. Basic rules of biomedical ethics of scientific research in medicine and pharmacology. 2.2. Ethical and legal principles of conducting biomedical research involving animals and humans, alternative possibilities for their reduction and replacement.
	UC-1 GPC-1	Section 3. Physician personality and deontology	3.1. Deontology and the meaning of healing 3.2. Psychological and ethical requirements for the personality of a doctor. Psychological characteristics and attitudes of the doctor that prevent interaction with the patient 3.3. Bioethical models of the doctor-patient relationship. Characteristics and psychological mechanisms functioning in the paternalistic, collegial, technocratic and client-centered model of interaction between a doctor and a patient. 3.4. Problems of professional responsibility of medical workers. Iatrogenic diseases and medical errors. Ethical problems of robotization and the use of artificial intelligence in diagnostics and medical decision making. 3.5. Ethical problems of medical communication. The specifics of the doctor's communication with incurable patients. Communication in hospices. Stages of acceptance of the disease and ethical and communicative basis of interaction between the doctor and the patient at each of these stages. Protecting the doctor and patient in digital medicine.

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters
	volume in credit units (CU)	volume in academic hours (AH)	
Classroom work, including	1,2	44	44
Lectures (L)	0,3	10	10
Laboratory practicum (LP)*		-	-
Practicals (P)		-	-
Seminars (S)	0,9	34	34
Student's individual work (SIW)	0,8	28	28
Mid-term assessment	-	-	-
credit	-	-	-
TOTAL LABOR INTENSITY	**2**	**72**	**72**

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Name of the section of the academic discipline	Types of academic work* (in AH)					
		L	LP	P	S	SIW	total
1	Bioethics in modern healthcare: concept, status, structure, content	5	-	18	-	10	30
2	Ethics of scientific research in medicine	2	-	6	-	8	13
3	Physician personality and deontology	3	-	10	-	10	20
4	Credit	-	-	-	-	-	-
	TOTAL	**10**	**-**	**34**	**-**	**28**	**72**

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH	Semester
1	1.1. The subject of bioethics as a theoretical science and practice of a doctor, the history of bioethics, current problems. Problems and norms of bioethics.	1	4
2	1.2. Basic principles and rules of bioethics. Models of bioethics.	1	4
3	1.4. Life and health as a value. Embryo status problem. Ethical Issues of intervention in human reproduction. Moral problems of modern genetics. New eugenics. Problems of protection of personal data and genetic information in the context of digital medicine.	2	4
4	2.1. Basic ethical principles of biomedical research	2	4
5	3.2. Psychological and ethical requirements for the personality of a doctor. The personality of the doctor and the meaning of healing. Physician identity in digital healthcare.	2	4
6	3.3. Bioethical Models of Doctor-Patient Relationships	2	4
	TOTAL (total - AH)	**10**	-

6.2.2. Thematic plan of practicals

№	Name of laboratory practicums	Volume in AH	Semester
1	1.2. Basic principles and rules of bioethics. Models of bioethics.	8	4
2	1.3. Life and health as a value. Protecting the rights of patients. Embryo status problem. Ethical problems of intervention in human reproduction. Moral problems of modern genetics. New eugenics. Problems of protection of personal data and genetic	3	4

	information in the context of digital medicine.		
3	1.4. Actual problems of bioethics and approaches to their solution in clinical medicine (the problem of euthanasia, cloning, organ transplantation, medical examination, medical errors, etc.). Modern digital technologies of medicine and ethical problems of their application (artificial intelligence, robotization, bioprinting, neural interfaces, etc.)	3	4
4	2.1. Basic ethical principles of biomedical research	8	4
5	2.2. Ethical and legal principles of conducting biomedical research involving animals and humans, alternative possibilities for their reduction and replacement.	3	4
6	3.1. Deontology and the meaning of healing	3	4
7	3.2. Psychological and ethical requirements for the personality of a doctor. Psychological characteristics and attitudes of the doctor that prevent interaction with the patient	2	4
8	3.3. Bioethical models of the doctor-patient relationship. Characteristics and psychological mechanisms functioning in the paternalistic, collegial, technocratic and client-centered model of interaction between a doctor and a patient.	2	4
9	3.4. Problems of professional responsibility of medical workers. Iatrogenic diseases and medical errors. Ethical problems of robotization and the use of artificial intelligence in diagnostics and medical decision making.	2	4
10	3.5. Ethical problems of medical communication. The specifics of the doctor's communication with incurable patients. Communication in hospices. Stages of acceptance of the disease and ethical and communicative basis of interaction between the doctor and the patient at each of these stages. Protecting the doctor and patient in digital medicine.	2	4
	TOTAL (total - AH)	**34**	-

6.2.3. Types and topics of student's individual work (SIW)

№	Types and topics of SIW	Volume in AH	Semester
1	Work with literary, documentary and other sources Information on the studied section, including in the interactive form	6	4
2	Fulfillment of practical tasks	4	4
3	Preparing reports	2	4
4	Writing essays	6	4
5	Preparing to participate in lessons in an interactive form	6	4
6	Preparing for current and interim control	4	4
	TOTAL (total - AH)	**28**	-

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Semester No.	Types of control	Name of section of academic discipline	Assessment formats		
				types	number of test questions	number of test task options
1.	4	control of student's independent work	Section 1: Bioethics in modern healthcare: concept, status, structure, content	abstract/report terminological dictation	1 10	40 -
			Section 2: Ethics of scientific research in medicine	oral survey, discussion/round table	- 5	- -
			Section 3. Physician personality and deontology	discussion role-playing game	3	-
2.	4	control of the development of the topic	Section 1: Bioethics in modern healthcare: concept, status, structure, content	oral survey, testing solution of situational problems analytical task	- 20 3 2	- 2 4 2
			Section 2: Ethics of scientific research in medicine	oral survey, testing solution of situational problems analytical task	- 20 2	- 2 4
			Section 3. Physician personality and deontology	oral survey, testing solution of situational problems analytical task	- 20 3 1	- 2 4 4
3	4	credit/ exam	All sections	Final testing	30	4

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies

		at the department	in the library

8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

№	*Name of the electronic resource*	*Brief description (content)*	*Access conditions*	*Number of users*

8.3.2. Electronic educational resources acquired by the University

№	*Name of the electronic resource*	*Brief description (content)*	*Access conditions*	*Number of users*

8.3.3 Open access resources

№	*Name of the electronic resource*	*Brief description (content)*	*Access conditions*

9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

Four training rooms for group practical classes in bioethics with the possibility of using a multimedia complex: 22 Semashko Str., the academic building.

9.2. List of equipment for classroom activities for the discipline

1. *Multimedia complex (laptop, projector, screen) for lecture classes (1 pcs.);*

2. *Set of multimedia visual materials (presentation) on the lecture course of the discipline (1 pcs.);*

3. *Study marker boards (4 pcs.);*

4. *Furniture (student desks and chairs) in 4 classrooms for practical classes for at least 30 persons.*

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	**Software**	**number of licenses**	**Type of software**	**Manufacturer**	**Number in the unified register of Russian software**	**Contract No. and date**
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.

3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020

10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of

PSYCHIATRY

CHANGE REGISTRATION SHEET

working program for the academic discipline

BIOETHICS

Field of study / specialty / scientific specialty: **31.05.01 GENERAL MEDICINE**

Training profile: __ **GENERAL PRACTITIONER** ___
(*name) - for master's degree programs*

Mode of study: **FULL-TIME**

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting
Protocol No. _____of _____20__

Head of the Department

_____ _____/_____
department name, academic title signature print name