MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education NORTHERN STATE MEDICAL UNIVERSITY of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A. K. Sherstennikova

June 16th 2021

SYLLABUS OF THE COURSE (MODULE)

Discipline **Philosophy**

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1/2

Form of the interim assessment Pass/fail test

Department The Department of Humanities

Discipline workload 72 (academic hours) / 2 (credits)

Approved at the department meeting:

Minutes No 11

June 9th 2021

Head of the department

A.V. Makulin

Author and compiler:

MAKULIN Artem Vladimirovich, Ph.D., docent, Head of the Department of Humanities

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects)

The discipline is related to prior subjects of the curriculum: **Bioethics**

The discipline is related to subsequent subjects of the curriculum: **no**

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research

2. Goal and tasks of the mastering of the discipline

Forming of necessary minimum of theoretical knowledge related to major philosophic questions, problems and concepts, which will lead to world outlook formation and will help students in their deeper understanding of professional knowledge.

Tasks of the course:

- develop the ability to navigate the complex philosophical problems;
- give an idea about the history of philosophy;
- explore current issues of philosophy.

2. Position of the course (module) within the structure of the educational program

The program is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The program related to many academic disciplines, including such as "History", "Bioethics". In turn, the main provision of the philosophy is the basis for the formation of the individual specialist.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement
Universal competencies (UC)-№	
УК-1. Способен осуществлять критический анализ проблемных ситуации на основе системного подхода, вырабатывать стратегию действий	ИД-1.1 Осуществляет критический анализ информации на основе системного подхода ИД-1.2. Идентифицирует проблемные ситуации на основе критического анализа ИД-1.3. Разрабатывает стратегию действий для решения проблемных ситуаций на основе системного и междисциплинарного подходов
УК-5. Способен анализировать и учитывать разнообразие культур в процессе межкультурного взаимодействия	ИД-5.1. Соблюдает этические нормы и права человека ИД-5.2. Анализирует и учитывает в профессиональной деятельности этнокультурные, национальные и конфессиональные особенности
General professional competencies (GPC) -№	
ОПК-	-
Professional competencies *(PC)- №	
ПК-	-

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 2 credits.

Type of the academic work	Total hours	Term
		2
Students'contact work with the teacher (total)	36	36
Including:		
Lectures (L)	12	12
Seminars (Sem.)	24	24
Practical classes (PC)		
Clinical practicals (CP)		
Laboratory-based practicals (LBP)		
Simulation-based practicals (SBP)		
Preparation for the examination (PE)		
Preparation for the credit (PC)		
Exam consultations (EC)		
Coursework (CW)		
Unsupervised work (UW) (total)	36	36
Examination control (EC)		
Total discipline workload	72/2	72

5. Course content:

5.1. Contents of the sections of the course

No	Name of the course	Content of the section
	section	
1	2	3
I.	History of philosophy	
	Introduction to	World outlook. Types of world outlook, dominated in various
	philosophy.	time periods: myth, religion, science. Outlook as system of
	Subject of philosophy.	value positions in understanding of World and human's place in
	Appearance of	it. Subject of philosophy and its meaning. Aims of philosophy.
	philosophic knowledge	Needs of philosophy. Use of philosophy in medical practice.
		Importance of history of philosophy.
	Philosophy of the	Specialty of Indian philosophy. Forming of Vedas. Classical
	orient.	philosophic schools in India: Charvaka- Lokayata, Jainism,
		Buddhism. Major terms and concepts in Indian philosophy.
		Rise of Chinese philosophy. Confucius and Daoism.
		Appearance of Buddhism in China. Medieval try to combine
		Confucius and Daoism. Philosophic school of neo- Confucius.
	Ancient Greek	Natural philosophy. Pre-Socratic Philosophy. Sophistry.
	philosophy.	Socrates and the Socratic revolution in philosophy. The
		philosophy of Plato and Aristotle. Hellenistic philosophy and
		Roman philosophy
	MEDIEVAL	Medieval European philosophy as a system of Christian
	PHILOSOPHY and	religious and philosophic tradition. Patristic. Augustine the
	RENAISSANCE	Blessed. Scholastics and its major directions. Discussion about
	PHILOSOPHY.	universals, variant of decisions: realism (Thomas Aquinas),
		nominalism (Roselyn), conceptualism (Abelard)
		Humanism, anthropocentrism, and pantheism in Renaissance
		philosophy. Its difference from Medieval one. Italian humanists
		(14-15 centuries). Nicolas Cusanus. Social and philosophic

		ideas of 16 th century. Reasons and ideas of Religious			
		Reformation.			
	Early modern	Early modern philosophy.			
	philosophy. The	Metaphysical mechanics, materialism, idealism, rationalism,			
	philosophy of the	empirism, sensualism.			
	enlightenment.	Definition of TRUTH. Substance and its origin in classical			
		metaphysics. Psychophysical problem; idealistic and			
		materialistic decision.			
		F. Bacon about pre justice of mind, methods of knowledge and practical tasks of science. Induction and Deduction. T. Hobbes:			
		materialism in his study of human nature, concept of state and			
		society. J. Locke: theory of knowledge and philosophic			
		problems of liberalism.			
		R. Descartes: rules of method, "I'm thinking means I'm			
		existing", possibility of true knowledge, reasons for mistakes.			
		Pantheism and ethics of B. Spinoza.			
		G. Leibniz and his study.			
		J. Berkley and his subjective idealism. Agnosticism and D.			
		Hume. His study of reasons and moral philosophy. I. Kant			
		"What is it the Age of Enlightenment?"			
		The Philosophy of the Enlightenment.			
	PHILOSOPHY at the	Aims of critical philosophy. I. Kant and theory of knowledge.			
	end of the 18th – the	Transcendental ideas of clear knowledge as possible base for			
	first half of the 19th.	experience.			
		Why it is possible to divide all objects into "objects of			
		experience" and "objects out of experience". Kant's try to			
		explain the possibility of moral behavior. Transcendental idea			
		of freedom and autonomic will as the main moral principles.			
		I. Kant's idea of God is impossible to use for getting "positive"			
		knowledge. Question of God in German idealistic philosophy.			
		Ideas about historical development of society.			
		I. Fichte philosophic concept and its general principles.			
		Transcendental idealism and F. Schelling.			
		General points about Hegel's absolute idealism: nature and			
		history as the steps in Absolute Spirit's development. History as			
	DI 1 1 2 2	self realizing of human freedom.			
	Philosophy the second	Marxism. Positivism and Pragmatism. Philosophical			
	half of the xix - early XX c.	anthropology. Philosophy of life. Philosophy of the unconscious. Existentialism. Phenomenology and			
	AA U	Hermeneutics. Philosophical anthropology.			
	Russian philosophy	Notable philosophers of the late 19th and early 20th centuries			
	F	include Vladimir Solovyev, Vasily Rozanov, Leo Tolstoy,			
		Sergei Bulgakov, Pavel Florensky, Nikolai Berdyaev, Pitirim			
		Sorokin, and Vladimir Vernadsky.			
II.	Systematic philosophy				
	Ontology	Appearance and development of Ontology. I. Kant's critic of			
		traditional ontology. Basic ontological principles: being and			
		nothing, existence, possibility and reality, matter, motion, time, space. M. Heidegger's "Fundamental ontology".			
	Gnoseology	Subject and object of knowledge. Subjective and objective			
	Giloscology	Subject and object of knowledge. Subjective and objective			

(onigtomala arr)	modity. Levels and stone of Imperiled as Considerations of
(epistemology)	reality. Levels and steps of knowledge. Sensitive type of
	knowledge. Forms of abstract thinking. Term "knowledge".
Talein and ation	Problem of truth and truth criteria.
Ethics, aesthetics,	Ethics studies in antique philosophy. Problem of morality. I.
axiology	Kant and ethic idealism. Material ethics M. Scheller and R.
	Rorty. Morality as a form of social consciousness. Ethic
	problems in medical practice: death lethal injections, death
	leading illnesses, patients without medical insurance, etc.
	Understanding of Axiology. Main axiological problems,
	principles and concepts.
	Value, types of values. Examples of values. Importance of
	values in contemporary society and individual human daily life.
Y 6 1 1 4	Values and professional problems.
Laws of dialectics	Understanding the term "Dialectics": different meanings.
	Appearance of first dialectical ideas. Development of Dialectics
	in history of philosophy till 19 th century. Hegel idealistic
	dialectics: 3 laws of dialectics, main categories and principles.
	Materialistic dialectics. Marx and the use of Hegel dialectics.
I arms of locie	K. Popper and his critic of traditional dialectics.
Laws of logic	Logic - the branch of philosophy concerned with the use and
Cocial whilesawhy	study of valid reasoning. Society. System of social reality. Social relations and their
Social philosophy	types. Communication. Social activity. Various models of
	social reality. Historism: general features, place and role in
	social knowledge.
Philosophy of religion	Religious explanation of the World: God and creation, God's
1 miosophy of rengion	will and human behavior. Philosophic ideas about the World
	since ancient times till today: major concepts and directions,
	Some general statements for philosophic point of view.
	Scientific concept if the World: World like mechanism, types of
	rationality, positive and negative aspects of this concept.
Philosophy of culture	Various definitions of culture. Types of culture: traditional,
global problems of	industrial, postindustrial; ideal, material; eastern, western;
mankind	professional culture, etc. and their explanations. Main problems
	related to Culture. Culture and Civilization: what is common
	what is different according to various concepts? Eastern and
	Western Culture: why we are talking about the conflict?
	Human mankind as a subject of history. Situation in the world
	at the end of 20 th
	- beginning of 21 st centuries. Appearance and origin of global
	problems. Methods for their exploration. Global modeling.
	Classification of global problems.
	F

5.2. Sections and types of studies

No.	Name of the course	L	S	P	CP	LBP	SBP	UW	Total
	section								hours
	History of philosophy	6	12					18	
	Systematic philosophy	6	12					18	
		12	24					36	72

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control
	History of philosophy	Role-playing game. Colloquium. Discussion.	Test #1,2,3
	Systematic philosophy	Role-playing game. Colloquium. Discussion.	Test #4

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (pass/fail test, examination, term paper) Stages of the interim assessment

Stages of examination (pass/fail test)

1. StageKnowledge tests №1 History of philosophy
(name of the stage)
2. StageKnowledge tests №2 History of philosophy
(name of the stage)
3. StageKnowledge tests №3 History of philosophy
(name of the stage)
4. StageKnowledge tests №4 Systematic philosophy
(name of the stage)
5. Stage pass/fail test
(name of the stage)

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

- 1. Makulin A. V. Philosophy a collection of test questions [Текст]/ A. V. Makulin; Northen State Medical University, Chair of the Humanities. -Архангельск: Изд-во СГМУ, 2014. -143 р.: il.
- 2. Алексеев П.В. Философия [Электронный ресурс] : учебник/ П. В. Алексеев, А. В. Панин. -4-е изд., испр. и доп. -Москва: ПРОСПЕКТ, 2015. -592 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785392146611.html.
- 3. Макулин А. В. История философии [Электронный ресурс] : учеб. пособие/ А. В. Макулин; М-во здравоохранения Рос. Федерации, Сев. гос. мед. ун-т. Архангельск: Изд-во Сев. гос. мед. ун-та, 2013. -444 с. Режим доступа: http://nb.nsmu.ru/cgi
 - bin/irbis64r_11/cgiirbis_64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S2

- 1STN=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=1&S21P03=I=&S21STR=elb/M%2017-630657.
- 4. Философия [Электронный ресурс] : учебник/ ред.: В. Д. Губин, Т. Ю. Сидорина. 5-е изд., испр. и доп.. -Москва: ГЭОТАР-Медиа, 2016 Режим доступа: http://www.studentlibrary.ru/book/ISBN9785970436851.html.
- 5. Хрусталев Ю.М. Философия для медицинских вузов (естественно-научный и социально-гуманитарный диалог) [Электронный ресурс] : учебное пособие/ Ю. М. 5. Хрусталев, Н. В. Кишкин . -Ростов н/Д.: Феникс, 2016. -365 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785222263907.html.

8.2. Supplementary literature

- 1. Балашов Л.Е. Философия [Электронный ресурс] : учебник/ Л. Е. Балашов. -Москва: Дашков и К, 2015. -612 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785394017421.html.
- 2. Макулин А. В. Рабочая тетрадь. Философия. Часть І. История философии [Электронный ресурс] : учебное пособие/ А. В. Макулин. -Архангельск, 2015. -234 с Режим доступа: http://nb.nsmu.ru/cgi-bin/irbis64r_11/cgiirbis_64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S21ST N=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=1 &S21P03=I=&S21STR=elb/M%2017-376999.
- 3. Макулин А. В. Рабочая тетрадь. Философия. Часть II. Систематическая философия [Электронный ресурс] : учебное пособие/ А. В. Макулин. -Архангельск, 2015. -150 с Режим доступа: http://nb.nsmu.ru/cgi-bin/irbis64r_11/cgiirbis_64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S21ST N=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=1 &S21P03=I=&S21STR=elb/M%2017-504768.
- 4. Разин А.В. Философия [Электронный ресурс] : учеб. пособие/ А. В. Разин. -2-е изд., перераб. и доп.. -Москва: ПРОСПЕКТ, 2015. -496 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785392143467.html.
- Хрусталев Ю.М. Философия [Электронный ресурс] : учебник/ Ю. М. Хрусталев. Москва: ГЭОТАР-Медиа, 2015. -464 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785970431849.html.
 General List of additional literature see here: http://www.philosophy.ru/lib/fortext/

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

№	Resourc	URL address	Resource
	es		Annotati
			on
	philosophic	www.philosophy.ru	
	library on-		
	line		
	(Russian/		
	English)		
	the	http://www.humanities.edu.ru/db/msg/2837	
	dictionary		
	of		
	philosophic		
	al terms and		
	names		
	the	http://www.philosophypages.com/dy/	

dictionary		
of		
philosophic		
al terms and		
names		
the entrance	http://en.wikipedia.org/wiki/philosophy	
page to all		
articles in		
the		
philosophy		
section of		
the		
encyclopedi		
a		
Meta-	http://www.ditext.com/encyc/frame.html	
Encycloped		
ia of		
Philosophy		
the Internet	http://www.utm.edu/research/iep/	
Encycloped		
ia of		
Philosophy		
the Stanford	http://plato.stanford.edu/archives/sum2003/contens.ht	
Internet	ml/#m	
Encycloped		
ia of		
Philosophy		
from A to Z		
philosophic	http://onlinebooks.library.upenn.edu	
library on-		
line		

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

No	Platform of EL DLT	Name of the e-course, authors, URL address	E-course implementation model
	Consultant student	http://www.studmed lib.ru/	

- 8.5. The list of the software and information & reference systems
- -technical means: computer equipment and communications equipment (projector, laptop);
- Methods of learning using information technology (computer testing (Room 2306), demonstration of multimedia materials);
- A list of online services and electronic resources:
- 1. Electronic Library System IPRbooks http://www.iprbookshop.ru/
- 2. Consultant student http://www.studmedlib.ru/
- 3. Digital Library of University http://lib.nsmu.ru/lib
- video-lectures in philosophy of religion

- films about life and deeds of major European and Eastern philosophers.

(thematic use of video materials depends on teacher)

During the seminars in "Philosophy of Culture" student are able to visit museums and excursions:

- 1. Art Museum: « Ancient Russian Art» и «18 19 century Russian Art.»
- 2. Museum Complex «House of Plotnikova»: «Old Arkhangelsk»

9. Material and technical facilities necessary for the educational process*

№	Name of the study room	Location of the study room	List of the main equipment of the study room
	Department of	2412	Personal computer and
	Humanities, NSMU,		projector
	Troitsky Prospekt 51		
	Department of	2416	Personal computer and
	Humanities, NSMU,		projector
	Troitsky Prospekt 51		
	Department of	2425	Personal computer and
	Humanities, NSMU,		projector
	Troitsky Prospekt 51		
	Department of	2428	Personal computer and
	Humanities, NSMU,		projector
	Troitsky Prospekt 51		

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APPROVED

Dean of the International Faculty of General Practitioner

A. K. Sherstennikova

June 16th 2021

SYLLABUS OF THE COURSE (MODULE)

Discipline **Bioethics**

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1 / 1,2

Form of the interim assessment **Pass/fail test**

Department The Department of Humanities

Discipline workload 72 (academic hours) / 2 (credits)

Approved at the department meeting:

Minutes No 11

June 9th 2021

Head of the department

Mauyaun A.V. Makulin

Author and compiler:

MAKULIN Artem Vladimirovich, Ph.D., docent, Head of the Department of Humanities

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects)

The discipline is related to prior subjects of the curriculum: **History**

The discipline is related to subsequent subjects of the curriculum: **Philosophy**

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research

2. Goal and tasks of the mastering of the discipline

to form students' conscious attitude towards bioethics as a modern form of biomedical ethics, which are subject to the regulation of human relations super task – saving the humankind.

2. Position of the course (module) within the structure of the educational program

The program is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The program related to many academic disciplines, including such as "History", "Bioethics". In turn, the main provision of the philosophy is the basis for the formation of the individual specialist.

3. List of the planned learning outcomes of the discipline (module) in connection to the nlanned outcomes of the mastering of the educational n

Codes of the formed competences	Indicator of the competence achievement
Universal competencies (UC)-№	
УК-5. Способен анализировать и учитывать разнообразие культур в процессе межкультурного взаимодействия	ИД-5.1. Соблюдает этические нормы и права человека ИД-5.2. Анализирует и учитывает в профессиональной деятельности этнокультурные, национальные и конфессиональные особенности
УК-9. Способен использовать базовые дефектологические знания в социальной и профессиональной сферах	ИД-9.1. Применяет эффективную коммуникацию и создает толерантную среду при взаимодействии с лицами с ограниченными возможностями здоровья и инвалидами в социальной и профессиональной деятельности
УК-11. Способен формировать нетерпимое отношение к коррупционному поведению	ИД-11.1. Использовать в профессиональной среде действующие правовые нормы, обеспечивающие борьбу с коррупцией ИД-11.2. Анализирует ситуацию на наличие коррупционной составляющей и прогнозирует последствия коррупционного поведения
General professional competencies (GPC) -№	
ОПК-1. Способен реализовывать моральные и правовые, этические и деонтологические принципы в профессиональной деятельности	ИД-1.1 Знает основы медицинской этики и деонтологии; основы законодательства в сфере здравоохранения; правовые аспекты врачебной деятельности. ИД-1.2. Умеет применять этические нормы и принципы поведения медицинского работника при выполнении своих профессиональных

	обязанностей; знание современного законодательства в сфере здравоохранения при решении задач профессиональной деятельности; применять правила и нормы взаимодействия врача с коллегами и пациентами (их законными представителями).
Professional competencies *(PC)- №	
ПК-	-

4. Volume of the course (module) and types of the academic classes: Total workload of the course is 2 credits.

Type of the academic work	Total hours	Te	rm
		1	2
Students'contact work with the teacher (total)	36	18	18
Including:			
Lectures (L)	12	6	6
Seminars (Sem.)	24	12	12
Practical classes (PC)			
Clinical practicals (CP)			
Laboratory-based practicals (LBP)			
Simulation-based practicals (SBP)			
Preparation for the examination (PE)			
Preparation for the credit (PC)			
Exam consultations (EC)			
Coursework (CW)			
Unsupervised work (UW) (total)	36	18	18
Examination control (EC)			
Total discipline workload	72/2	36	36

5. Content of the course:

5.1. Content of the sections of the course

No	Name of the	
	course section	Content of the section
1	2	3
1	General issues	1. Introduction to bioethics. Subject of bioethics, philosophical
	of bioethics	basics of bioethics. Historical models and general problems of
		medical ethics. Essential bioethical concepts.
		2. Ethics of relationship between medical professionals and patients.
		The concepts of medical secrecy and confidentiality. Legal
		mapping and regulation. National and international rules of laws
		on medical confidentiality.
		3. Correlation of religion and medicine. Areas of contact and
		differences. Contemporary disputes and controversy.
2	Current applied	4. Euthanasia, it's classification, legal aspects and norms. Bioethical
	problems of	issues of death and dying.
	bioethics	5. Ethics of abortion. Bioethical problems of conception, birth and
		creation of life. Ethics of prenatal screening and diagnosis.
		6. Bioethical problems caused due to development of medical
		genetics and engineering.
		7. Eugenics. History of development of science and its negative
		application. Bioethical problems associated with the desire to

 improve heredity qualities of human race. 8. Bioethical problems associated with development of transplantation of organs. Ethical values of organ donation. 9. Bioethical problems arising in psychiatric care. 10. Ethical and legal regulation of medical studies and trials involving human subjects. 11. The doctrine of animal rights. Ethical limits of animal use in medical research. 12. Cloning. Types of cloning and issues associated with creation of an idea and technology of cloning. 13. Placebo. Ethical aspects and norms of the use of placebo. 14. The Hippogratic Oath, Ethical content and relevance.
14. The Hippocratic Oath. Ethical content and relevance.

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1	General issues of bioethics	6	12					18	36
2	Current applied problems of bioethics	6	12					18	36
		12	24					36	72

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of
	Name of the course section	t of the course section 1 ypes of the unsupervised work	
1	General issues of bioethics	Filling the tests from the workbook	In-class verification, explanation of the answers given, discussion in groups
		Report writing Essay Writing	Verification Verification
2	Current applied problems of bioethics	Filling the tests from the workbook	In-class verification, explanation of the answers given, discussion in groups
		Report writing Essay Writing Creating presentations Conducting sociological surveys	Verification Verification Verification Verification

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (pass/fail test, examination, term paper) Stages of the interim assessment

Stages of examination (pass/fail test)

- 1. Stage Electronic test. Final test on the whole course
- 2. Stage Oral answer by exam questions

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

- 1. **Karabintseva A.A., Makulin A.V**. Bioethics. Arkhangelsk, Изд-во СГМУ, 2016. 60р.
- 2. **Reich W. T.** (ed.), Encyclopedia of bioethics, The Free Press, New York, 1978 (V.1-4).
- 3. **Биоэтика. Этические и** юридические документы, нормативные акты [Электронный ресурс] : учеб. пособие/ сост.: И. А. Шамов, С. А. Абусуев. -Москва: ГЭОТАР-Медиа, 2014. -357 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785970429754.html
- 4. **Хрусталев Ю.М.** Биоэтика. Философия сохранения жизни и сбережения здоровья [Электронный ресурс] : учебник/ Ю. М. Хрусталев. -Москва: ГЭОТАР-Медиа, 2017. -400 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785970440933.html
- 5. **Шамов И.А.** Биомедицинская этика [Электронный ресурс] : [учебник для мед. вузов]/ И. А. Шамов. -Москва: ГЭОТАР-Медиа, 2014. -286 с.: ил. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785970429761.html

8.2. Supplementary literature

- 1. Bioethics online dictionary: http://www.eubios.info/biodict.htm
- 2. A Cross-Cultural Introduction to Bioethics, Eubios Ethics Institute: http://www.eubios.info/cross_cultural_introduction_to_bioethics
- 3. Bioethics Case Studies / Eubios Ethics Institute and American University of Sovereign Nations: (http://www.eubios.info/bioethics_education)
- 4. Casebook on Human Dignity and Human Rights, UNESCO, 2011, Bioethics Core Curriculum Casebook Series, No. 1, UNESCO: Paris, p. vii
- 1. A Cross-Cultural Introduction to Bioethics, Eubios Ethics Institute: http://www.eubios.info/cross_cultural_introduction_to_bioethics
- 2. Bioethics Case Studies / Eubios Ethics Institute and American University of Sovereign Nations: (http://www.eubios.info/bioethics_education)

- 3. Back AL, Starks H, Hsu C, Gordon JR, Bharucha R, Pearlman RA. Clinitian-patient interactions about requests for physician-assisted suicide: a patient and family view. Arch Intern Med. 2002; 162(11): 1257-1265
- 4. Battin, MP. The Least Worst Death. Oxford: Oxford University Press, 1994
- 5. Dobscha SK, Heintz RT, Press N, Ganzini L. Oregon physicians` responses to requests for assisted suicide: A qualitative study. J. Palliative Med. 2004; 7(3): 451-461
- 6. Wikipedia, the free encyclopedia "Legality of euthanasia": (https://en.wikipedia.org/wiki/Legality_of_euthanasia)
- 7. World Medical Association Declaration of Lisbon on the Rights of the Patient, The World Medical Association, Inc., October 2005

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

No	Resources	URL address	Resource
			Annotation
	Free	http://ru.wikipedia.org	
	encyclopedia		
	Eubios Institute	http://www.eubios.info	
	Nuffield	http://nuffieldbioethics.org	
	Council on		
	Bioethics		
	National	http://www.nap.edu/	
	Academy Press		
	World Medical	http://www.wma.net	
	Association		
	UNESCO	http://www.unesco.org/new/en/natural-	
	Bioethics	sciences/special-themes/biodiversity/biodiversity-	
	programme	<u>culture/bioethics/</u>	
	World Health	1.44	
	Organisation	http://www.who.int	

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

№	Platform of EL DLT	Name of the e-course, E-course implementation model
		authors, URL address
	moodle	1 course English +3K
		medium Bioethics

- 8.5. The list of the software and information & reference systems
- -technical means: computer equipment and communications equipment (projector, laptop);
- Methods of learning using information technology (computer testing (Room 2306), demonstration of multimedia materials);

9. Material and technical facilities necessary for the educational process*

No॒	Name of the study room	Location of the study room	List of the main equipment of the
			study room
	Department of Humanities,	2412, 2416,	Personal computer and
	NSMU, Troitsky Prospekt 51	2425, 2428	projector

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education NORTHERN STATE MEDICAL UNIVERSITY of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A. K. Sherstennikova

June 16th 2021

SYLLABUS OF THE COURSE (MODULE)

Discipline **History**

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1 / 2

Form of the interim assessment Pass/fail test

Department The Department of Humanities

Discipline workload 72 (academic hours) / 2 (credits)

Approved at the department meeting:

Minutes No 11

June 9th 2021

Head of the department

A.V. Makulin

Author and compiler:

LAVRENTEVA Anna Yuryevna, Ph.D., senior lecturer, Head of the Department of Humanities

Arkhangelsk, 2021

1. Position of the course (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects)

The discipline is related to prior subjects of the curriculum: Philosophy

The discipline is related to subsequent subjects of the curriculum: Bioethics

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research/ The program is related to many academic disciplines, including such as "Philosophy", "Sociology", "Politics". In turn, the main provisions of the history is the basis for the formation of the individual specialist.

2. Goal and tasks of the mastering of the course

• to form students` conscious attitude towards history as a modern form of historical knowledge, which are subject to the regulation of human relations.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement
Universal competencies (UC)-№ UK-1. Is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions	ID-1.1 Performs a critical analysis of information based on a systematic approach ID-1.2. Identifies problem situations based on critical analysis ID-1.3. Develops an action strategy for solving problem situations based on the systematic and interdisciplinary approaches
UK-5. Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	ID-5.1. Observes ethical norms and human rights ID-5.2. Analyzes and takes into account the ethnocultural, national and confessional features ID-5 in professional activity.3. Forms a tolerant environment of interaction when performing professional tasks ID-5.4. Overcomes barriers in the process of intercultural interaction
General professional competencies (GPC) -№	
Professional competencies *(PC)- №	

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 2 credits.

Type of the academic work	Total hours	Term	
		2	
Students'contact work with the teacher (total)	36	36	
Including:			
Lectures (L)	12	12	

Seminars (Sem.)	24	24
Practical classes (PC)		
Clinical practicals (CP)		
Laboratory-based practicals (LBP)		
Simulation-based practicals (SBP)		
Preparation for the examination (PE)		
Preparation for the credit (PC)		
Exam consultations (EC)		
Coursework (CW)		
Unsupervised work (UW) (total)	36	36
Examination control (EC)		
Total discipline workload	72/2	72

5. Content of the course:

5.1. Content of the sections of the course

No	Name of the course section	Content of the section
1	2	3
1	Introduction to the discipline of	Functions of historical knowledge. The main
	History.	methods of studying history. The main sources of
		the study of history. The world-historical process:
		unity and diversity. Basic concepts of the history of
		society. Types of civilizations. The influence of
		geopolitical factors on history. The main scientific
		concepts of the history of Russia. The geopolitical
		situation and its influence on the direction and
		nature of Russia's historical development. The
		mentality of the Russian people. The place and role
		of Russia in world history.
2	Ancient Slavs and Kievan Rus	The origin and settlement of the Eastern Slavs;
	(IX-XIII centuries) Culture of	their occupations.
	Kievan Rus (IX-XIII centuries)	The formation of the Old Russian statehood.
	Culture of India	The adoption of Christianity and the role of
		Orthodoxy in Russian history. The fight against the
		external aggression of the Ancient Russian state.
		Fragmentation: causes, specifics, consequences.
		Economic and political history of the Russian lands
		during the period of fragmentation. The Tatar-
		Mongol yoke and its role in the history of the
		Russian people. Culture of Kievan Rus (IX-XIII
_		centuries) Culture of India.
3	The Russian centralized state	Formation of the Russian centralized state (activity of
	(XIV-XVII centuries) and Culture	Ivan III and Ivan the Terrible). The Romanov Dynasty.
		The culture of the Russian centralized state.
4	The Russian Empire of the XVIII	The politics of Peter the Great, Catherine the Great.
	- XIX centuries . The "Golden	Reforms of Alexander I: from Liberalism to
	Age" of Russian culture.	Conservatism. Foreign policy: The Patriotic War of
		1812. Reforms of Alexander II. The internal policy of
		Nicholas II. Revolutionary-military events of the
		beginning of the XX century. The "Golden Age" and
<u> </u>	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the "Silver Age" in Russian culture.
5	Russia in the XX century. The	Formation of a new political system. Cultural policy.
	Revolution of 1917 The creation	The Great Patriotic War. Achievements of the USSR in

	of the USSR (1922). The Great Patriotic War (1941-1945) Cultural ties between the USSR and India after independence.	space exploration and the use of nuclear energy. The collapse of the USSR as a result of crisis phenomena. Cultural ties between the USSR and India after independence.
6	Russia at the turn of the century	Education of the Russian Federation. The first
	(XX-XXI centuries). General	President of the Russian Federation B.N. Yeltsin.
	history	Formation of a new political system. A new concept of
		foreign and domestic policy.

5.2. Sections and types of studies

№	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total
п/п									hours
1	Introduction to the discipline of History.	2	2					5	9
2	Ancient Slavs and Kievan Rus (IX-XIII	2	4					5	11
	centuries) Culture of Kievan Rus (IX-XIII								
	centuries) Culture of India								
3	The Russian centralized state (XIV-XVII	2	4					5	11
	centuries) and Culture								
4	The Russian Empire of the XVIII - XIX	2	6					8	16
	centuries . The "Golden Age" of Russian								
	culture.								
5	Russia in the XX century. The Revolution of	2	4					8	14
	1917 The creation of the USSR (1922). The								
	Great Patriotic War (1941-1945) Cultural ties								
	between the USSR and India after								
	independence.								
6	Russia at the turn of the century (XX-XXI	2	4					5	11
	centuries) General history								
	•	12	24					36	72

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control
	1 course English medium Bioethics		Test

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (pass/fail test, examination, term paper) Stages of the interim assessment

Stages of examination (pass/fail test)

1. Stage - Electronic test. Final test on the whole course

2. Stage – Oral answer by exam questions

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

- 1. History of Russia [Electronic resource]: textbook. manual/ A. S. Orlov [et al.]. -Moscow: PROSPECT, 2015 Access mode: http://www.studentlibrary.ru/book/ISBN9785392164394.html 2. History of Russia [Text]: textbook/ A. S. Orlov [et al.]; Moscow State University named after M. V. Lomonosov. Ist. fac.. -4th ed., reprint. and add.. -Moscow: Prospekt, 2015. -527, [1] p.
- 3. Matyukhin A.V. History of Russia [Electronic resource]: textbook/ A.V. Matyukhin, Yu. A. Davydova, R. E. Azizbayeva. -4th ed., ispr. and add.. -Moscow: Synergy University, 2018. -312 p. Access mode: http://www.studentlibrary.ru/book/ISBN9785425702722.html .
- 4. Sakharov A.N. The modern history of Russia [Electronic resource]: textbook/ A. N. Sakharov, A. N. Bokhanov, V. A. Shestakov; ed. by A. N. Sakharov. -Moscow: PROSPEKT, 2015. -480 p. Access mode: http://www.studentlibrary.ru/book/ISBN9785392163946.html .
- 5. Sakharov A. N. History of Russia from ancient times to the present day [Electronic resource]: textbook/ A. N. Sakharov, A. N. Bokhanov, V. A. Shestakov. -Moscow: PROSPEKT, 2014 Access mode: http://www.studentlibrary.ru/book/ISBN9785392124824.html .

8.2. Supplementary literature

- 1. Деревянко А.П. История России: с древнейших времен до наших дней [Электронный ресурс]/ А. П. Деревянко, Н. А. Шабельникова , А. В. Усов. -4-е изд., перераб. и доп.. Москва: ПРОСПЕКТ, 2016. -672 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785392192144.html .
- 2. Жукова Л.В. История России в датах: справочник [Электронный ресурс]/ Л. В. Жукова, Л. А. Кацва. -Москва: ПРОСПЕКТ, 2014 Режим доступа: http://www.studentlibrary.ru/book/ISBN9785392124701.html.
- 3. История России в датах [Электронный ресурс]/ А. С. Орлов [и др.]. -Москва:

 ПРОСПЕКТ,
 2014 Режим доступа:

 http://www.studentlibrary.ru/book/ISBN9785392134120.html.
- 4. История СССР/РФ в контексте современного россиеведения [Электронный ресурс] : учебное пособие/ И. А. Агакишиев [и др.] ; ред.: Е. И. Пивовар, А. Б. Безбородов. -Москва: ГЭОТАР-Медиа, 2015. -400 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785392163144.html.
- 5. Сахаров А.Н. История России с древнейших времен до наших дней [Электронный ресурс] : в 2 т., Т. 2/ А. Н. Сахаров, А. Н. Боханов , В. А. Шестаков ; ред. А. Н. Сахаров. Москва: ПРОСПЕКТ, 2015. -720 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785392167746.html.
- 6. Сахаров А.Н. История России с древнейших времен до наших дней [Электронный ресурс] : в 2 т., Т. 1/ А. Н. Сахаров, А. Н. Боханов , В. А. Шестаков ; ред. А. Н. Сахаров. Москва: ПРОСПЕКТ, 2015. -544 с. Режим доступа: http://www.studentlibrary.ru/book/ISBN9785392163113.html.
- 7. Гацунаев К.Н., История [Электронный ресурс] : учебное пособие для студентов заочной формы обучения и экстерната/ К.Н. Гацунаев М. : Издательство МИСИ МГСУ 2017,. -

- 117 с. ISBN в 978-5-7264-1776-9 Режим доступа: http://www.studentlibrary.ru/book/ISBN9785726417769.html
- 8. Молокова Т.А., История [Электронный ресурс]: учебник / Т.А. Молокова, К.Н. Гацунаев, О.М. Вызова, М.Г. Ефремова, А.А. Мурашев, Т.Л. Пантелеева, Ю.В. Посвятенко, В.П. Фролов М.: Издательство МИСИ МГСУ 2017,. 290 с. ISBN в 978-5-7264-1653-3 Режим доступа: http://www.studentlibrary.ru/book/ISBN9785726416533.html 9. Штолль Г.В, История Древнего Рима в избранных биографиях [Электронный ресурс]: аудиокнига / Штолль Г.В.; пер. с нем. под ред. Я. Гуревича; читает Станислав Федосов. Время звучания 8 час. 41 мин., носитель 1 СD, формат: mp3, 160 Кбит/с, 16 бит, 44,1 кГц, стерео. М.: Студия АРДИС, 2011. (Серия "Историческая библиотека") ISBN -- Режим
- 10. Штолль Г.В., История Древней Греции в избранных биографиях [Электронный ресурс] : аудиокнига / Штолль Г. В.; пер. с нем.; читает Станислав Федосов . Время звучания 6 час. 51 мин., носитель 1 СD, формат: mp3, 192 Кбит/с, 16 бит, 44,1 кГц, стерео. . М.: Студия АРДИС, 2011. (Серия "Историческая библиотека") ISBN -- Режим доступа: http://www.studentlibrary.ru/book/AUDIO-62912.html

доступа: http://www.studentlibrary.ru/book/AUDIO-62059.html

- 11. Моммзен Т., История Рима [Электронный ресурс] : аудиокнига / Моммзен Т. ; перевод и краткое изложение Н. Д. Чечулина; читает Станислав Федосов . Время звучания 15 час. 36 мин., носитель 2 CD, формат: mp3, 160 Кбит/с, 16 бит, 44,1 кГц, стерео. М.: Студия АРДИС, 2009. (Серия "Историческая библиотека") ISBN -- Режим доступа: http://www.studentlibrary.ru/book/AUDIO-59578.html
- 12. Малия М. Россия глазами Запада: От Медного Всадника до Мавзолея Ленина. Кембридж: Гарвардский университет. Пресса, 2000. XII, 514 с.
- 13. Россия: Кембриджская энциклопедия России и бывшего Советского Союза / под ред. А. Брауна. Кембридж: Кембриджский университет. Пресса, 1994. 604 с.
- 14. Сарин Т.Р. Русская революция и Индия : исследование советской политики в отношении индийского национального движения, 1922-29. Нью-Дели : Издательство Стерлинг, 1978. IX, 164 с.

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

№	Resources	URL address	Resource
			Annotation
	Free encyclopedia	http://ru.wikipedia.org	
	Student Consultant	http://www.studmedlib.ru /	
	Electronic Library of	http://lib.nsmu.ru/lib	Educational
	the University		materials
	Institute of Russian	http://iriran.ru /	Digital collections
	History of the Russian		of scientific and
	Academy of Sciences		historical literature
			and historical
			sources
	Institute of the	1.44.0.7/	Digital collections,
	Russian Academy of	http://www.spbiiran.nw.ru /	digital libraries,
	Sciences		databases, etc.
	G 11 6	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Digital collections,
	Collection of	http://www.hist.msu.ru/ER/sources.htm	digital libraries,
	references of the		databases, etc
	references of the		
	Faculty of History of		
	Lomonosov Moscow		
	State University		

Media library	http://histrf.ru/mediateka	
NEB - National	http://нэб.рф	Videos on the
Electronic Library		History of Russia
Scientific electronic	http://www.elibrary.ru	Open resource Scientific electronic Library
Horary		eLibrary.RU
The "Web of Science"	https://www.webofscience.com	Database
database		
Elsevier Publishing	https://www.sciencedirect.com/	Database
House		
Springer Nature	https://link.springer.com/	Database
Publishing House		
Scopus database	https://www.scopus.com/	Access from
		university
		computers Database
		"Scopus"
Student Electronic	http://www.studentlibrary.ru /	Student Electronic Library
Library		

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

№	Platform of EL DLT	Name of the e-course, authors, URL address	E-course implementation model
	Consultant student	http://www.studmed lib.ru/	

- 8.5. The list of the software and information & reference systems
- -technical means: computer equipment and communications equipment (projector, laptop);
- Methods of learning using information technology (computer testing (Room 2306), demonstration of multimedia materials);
- A list of online services and electronic resources:
- 1. Electronic Library System IPRbooks http://www.iprbookshop.ru/
- 2. Consultant student http://www.studmedlib.ru/
- 3. Digital Library of University http://lib.nsmu.ru/lib
- video-lectures in philosophy of religion
- films about life and deeds of major European and Eastern philosophers.

(thematic use of video materials depends on teacher)

During the seminars in "Philosophy of Culture" student are able to visit museums and excursions:

1. Art Museum: « Ancient Russian Art» и «18 – 19 century Russian Art.»

2. Museum Complex «House of Plotnikova»: «Old Arkhangelsk»

$9. \ Material\ and\ technical\ facilities\ necessary\ for\ the\ educational\ process^*$

No	Name of the study room	Location of the study room	List of the main equipment of the study room
	Department of	2412	Personal computer and
	Humanities, NSMU,		projector
	Troitsky Prospekt 51		
	Department of	2416	Personal computer and
	Humanities, NSMU,		projector
	Troitsky Prospekt 51		
	Department of	2425	Personal computer and
	Humanities, NSMU,		projector
	Troitsky Prospekt 51		
	Department of	2428	Personal computer and
	Humanities, NSMU,		projector
	Troitsky Prospekt 51		

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APPROVED

Dean of the International Faculty of General Practitioner

A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline **History of medicine**

Field of training: 31.05.01 General Medicine

Year (s) of study / term(s) 1/1,2

Form of the interim assessment **Final test** (pass/fail)

Department of Public Health, Health Care and Social Work

Discipline workload 72 academic hours / 2 credits

Approved at the department meeting

Minutes No.

June 15th 2021

Head of the department:

E. A. Mordovsky

Author and compiler:

A.G. Kalinin, professor of the Department of Public health, Health care and Social work, M.D., Dr.Sc.

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The program is designed in accordance with the requirements of the Federal state educational standard 3++. The discipline is a mandatory part of the curriculum.

The discipline is related to subsequent subjects of the curriculum in the courses of humanities, social and economic disciplines, including: philosophy; bioethics, economics, psychology and pedagogy, law; foreign languages, in the courses of mathematical, natural science, medical and biological disciplines, including mathematics;, medical Informatics, general hygiene; epidemiology.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research

2. Goal and tasks of the mastering of the discipline

The purpose of discipline:

Preparation of students for the implementation of professional activities in the field of history of medicine. Formation of the necessary level of theoretical knowledge and fundamentals, the study of patterns of development and the history of medicine in the integrative connection with the development of socio-economic formations, history, philosophy, natural science and cultural achievements.

Tasks of discipline:

- 1. Building knowledge of the origin and development of certain specific medical-biological, hygienic, clinical disciplines; the role of prominent figures;
- 2. Formation of skills to use a historical research method and thinking as an integral part of the dialectical method, contributing to everyday practice of health professionals (doctors, nurses) and medical management;
- 3. Formation of competency of the historical and analytical approach to the objective evaluation of medical, hygienic knowledge about human health and disease at different stages of human development;
- 4. Building knowledge of the role of medicine in general culture and history of the people; know the history of scientific schools and trends in medicine, ethics and deontology of health workers

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence
	achievement
УК-5 Способен анализировать и учитывать разнообразие культур в процессе межкультурного взаимодействия	Able to analyze and take into account the diversity of cultures in the process of intercultural interaction. Indicators of competence achievement: ID-5.1. Complies with the ethical standards and human rights. ID-5.2. Analyzes and takes into account the ethno-cultural, national and confessional features in professional activities. ID-5.3. Forms a tolerant environment of interaction when performing professional tasks. ID-5.4. Overcomes barriers in the process of intercultural interaction
ОПК-1. Способен реализовывать моральные и правовые, этические и деонтологические принципы в профессиональной деятельности	Able to implement moral and legal, ethical and deontological principles in professional activities. Indicators of competence achieved: ID-1. Knows the basics of medical ethics and deontology; the basics of legislation in the field of healthcare; legal aspects of medical activity. ID-2. Knows how to apply ethical standards and principles of behavior of a medical professional in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving professional tasks; apply the rules and norms of interaction of a doctor with colleagues and patients (their legal representatives). ID-3. Has practical experience in solving standard tasks of professional activity on the basis of ethical norms and deontological principles in interaction with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical activity.

Total workload of the course is 2 credits.

Type of the academic work	Total hours	Term		
		1	2	
Students'contact work with the teacher (total)	36	18	18	
Including:				
Lectures (L)	12	6	6	
Seminars (Sem.)	24	12	12	
Practical classes (PC)				
Clinical practicals (CP)				
Laboratory-based practicals (LBP)				
Simulation-based practicals (SBP)				
Preparation for the examination (PE)				
Preparation for the credit (PC)				
Exam consultations (EC)				
Coursework (CW)				
Unsupervised work (UW) (total)	36	18	18	
Examination control (EC)				
Total discipline workload	72/2	36	36	

5. Course content:

5.1. Contents of the sections of the course

No	Name of the course section	Content of the section
1.	History of medicine as a science and a subject	History of medicine as science and part
	teaching. Medicine in primitive society	of the history of culture. Stages of
		development of medicine in connection
		with the development and change of
		socio-economic formations. The
		periodization of the history of medicine.
		Becoming a human being in the course
		of employment. The first implements.
		The discovery of fire. The emergence of
		healing. The first physicians. The
		concept of disease and health. Help with
		injuries, childbirth.
2.	Medicine in the Ancient World	The development of medicine in the
2.	Wedienie in the Amerent World	states of Egypt, Mesopotamia, India and
		China - the general notion about the
		causes of the disease, its treatment and
		prevention. Written Monuments of
		medical law and medical practice
		activities: laws of Hammurabi, the
		Egyptian papyri, Indian AyurVeda.
		Medicine of Ancient Greece - the first
		hospital, medical school, Hippocrates,
		the foundations of his teachings.
		Collection of Hippocrates. Medicine in
		Ancient Rome - sanitary measures and

		sanitary facilities (water, baths).
		Organization of the military medical
		service. Galen and his teachings.
3.	Medicine in the Middle Ages	Medicine in the Byzantine Empire, its influence on the development of medicine in other countries. Medicine in the Arab Caliphate. Medicine peoples of Central Asia. Abu Ali ibn Sina - Great scholar. His teachings about the structure of the body, the action of drugs and symptoms of the disease. "Canon of Medicine". Medicine in Western Europe during the Renaissance - natural science advances and their impact on medicine. Development yatrohimicheskih yatrofizicheskih and representations of the world. The development of anatomy as a science. Work Visalia A. "On the structure of the human body." The emergence of the doctrine of infectious diseases J. Fracastoro and his work "The contagious diseases and treatment." Development of surgery. Ambroise Pare and issues of dentistry.
4.	Medicine of New time.	Characteristics of era. The successes of the natural sciences, their impact on the development of medicine: the theory of organic evolution, the theory of heredity and variation. The development of anatomy, histology, microbiology, physiology. Clinical medicine: internal medicine, infectious diseases, surgery, gynecology and obstetrics. Most important discoveries in medicine in 19-20 th centuries.
5.	Medicine Newest time.	Period features. Health care in Russia in 20 th – 21st centuries. Health of the Soviet period. Maternal and child health. Prophylactic direction. Key achievements in medicine in 20th century. International cooperation in the field of health. World Health Organization. International Red Cross. The League of Red Cross and Red Crescent Societies.

5. Sections and types of studies

No.	Name of the course section	L	S	P	СР	LBP	SBP	UW	Total hours
1	History of medicine as a science and a subject teaching. Medicine in primitive society	2	3					8	13
2	Medicine in the Ancient World	2	9					10	21
3	Medicine in the Middle Ages	2	-					2	2
4	Medicine of New time	2	9					15	26
5	Medical Newest time	2	3					5	10
6	Total:	12	24					36	72

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle)

No.	Name of the course section	Types of the unsupervised work	Forms of control
1	History of medicine as a science and a subject teaching. Medicine in primitive society	Review of scientific publications, preparing presentations, and test tasks in Moodle SDS	Check presentations and test tasks.
2	Ancient medicine in Greece and Rome Impair	Review of scientific publications, preparing presentations, and test tasks in Moodle SDS	Check presentations and test control.
3.	Medieval Medicine of Western Europe	Review of scientific publications, preparing presentations, and test tasks in Moodle SDS	Check presentations and test control
4.	The rise of scientific medicine in Europe in the XVIII-XIX centuries.	Review of scientific publications, preparing presentations, and test tasks in Moodle SDS	Check presentations and test control
5.	Medicine of New time	Review of scientific publications, preparing presentations, and test tasks in Moodle SDS	Check presentations. Test control
6	Medical Newest time	Test tasks in the Moodle system. Design of a multimedia presentation on the topic	Check presentations. Test control

7. Forms of control

- 8.1. Current forms of control
- oral (an interview, a report)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

- 8.2. Forms of the interim assessment (pass/fail test, term paper) Stages of the interim assessment
- 1. Test control
- 2. Interview on checklist

Questions for a pass/fail test, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

Stages of examination (pass/fail test)

- 1. Stage checking each lesson (regular)
- 2. Stage checking of the whole course (final test)

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

- 8.1. Compulsory literature
- 1. Lisitsyn Y.P. History of Medicine: A textbook for medical students. M.: GEOTAR Media. 2020 352c. https://www.rosmedlib.ru/book/ISBN9785970454459.html
- 2. Sorokina TS History of Medicine: A textbook for students of higher medical educational institutions, 9th Edition, Revised. and dop.-M.: Academia, 2009-560c.
- 3. The Oxford Handbook of the History of Medicine. Oxford University Press., 2013 693 p.
- 4. History of Medicine. Cambridge University Press., 2013 160 p.
- 8.2. Supplementary literature
- 1. Y P Munjal & Surendra K Sharma: API Textbook of Medicine, Ninth Edition, Two Volume Set. <u>JayPee Brothers</u>, 2012.

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

№	Resources	URL address	Resource Annotation
	www.nsmu.ru - Digital Library System	http://nsmu.ru/eng/ http://nsmu.ru/eng/About% 20NSMU/about_nsmu.php	History, outstanding alumni's and structure of NSMU
	"Consultant student" "www.studmedlib.ru - wikipedia.org - medeffect.ru	https://en.wikipedia.org/wik i/Public_health	Porpoises, priorities, current practice, global perspectives, history, country examples.
	- www.people.su - www.who.org	https://www.who.int https://www.who.int/news- room/fact-sheets	Porpoises, priorities, structure, governance, global perspectives, history, country examples.

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

No	Platform of EL DLT	Name of th authors, URL ac	,	E-course implementation model
	The list of software:			
	- Microsoft Office			
	- SunRav TestOfficePro 5			
	- Adobe Reader 9			
	BigBlueButton Open Source			
	Virtual Classroom Software			
	Zoom Video Communications			

8.5. The list of the software and information & reference systems

9. Material and technical facilities necessary for the educational process*

№	Name of the study room	Location of the study room	List of the main equipment of the study room
1		4 th floor, main building	PC systems, Power Point system
2		4 th floor, main building	PC systems, Power Point system

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

Ulg A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline Foreign language

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1 / 1,2

Form of the interim assessment Pass/fail test

Department of foreign languages and Russian language as foreign

Discipline workload 108 (academic hours) / 3 (credits)

Approved at the department meeting

Minutes No. 10

June 15th 2021

Opn

Head of the department

O.I. Vorobyova

Author and compiler:

Candidate of Philological Sciences, Associate Professor of the Department of Foreign Languages and Russian as a Foreign Language A.T. Ashkharava

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum: developed for students of the international faculty (foreign students), for whom Russian is a foreign language.

The discipline is related to prior subjects of the curriculum: none

The discipline is related to subsequent subjects of the curriculum: Russian language (1-4 years)

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research. The discipline "Foreign language" has an applied meaning, is the basis for studying Russian as a foreign language - a means of obtaining professional knowledge (during training at the university) and means of their implementation (during practical training). This discipline is focused on the formation of universal competencies in the field of communication and intercultural interaction with the involvement of information and communication technologies as one of the ways of teaching.

2. Goal and tasks of the mastering of the discipline

The goal of mastering the discipline is to prepare students for the implementation of professional activities in the field of health care using a foreign (Russian) language. Students master a new means of communication - the state language of the country in which they are studying, which is necessary for comfortable living in a new socio-cultural environment, for obtaining and using professional knowledge. The discipline "Foreign language" involves the mastery of all types of speech activity (speaking, listening, reading, writing) in an amount corresponding to the elementary level of Russian language proficiency (A1– Level of Elementary Communication (Breakthrough Level)) with the use of knowledge, skills and abilities in the field of information technologies to optimize the process of mastering Russian as a foreign language and the formation of a linguistic personality capable of self-education in the field of learning foreign languages.

Tasks of the discipline

1. knowledge formation

- about the Russian language as the national language of the Russian people, the originality of its grammatical structure, lexical richness, functional and stylistic diversity;
- about the sound-letter basis of the Russian language, the basic norms of modern Russian literary pronunciation;
- about the grammatical structure of the Russian language (initial information about the significant and service parts of speech, their lexical and grammatical categories, basic syntactic models):
- about individual thematic groups (vocabulary of everyday and professional communication in the amount of at least 780 units);
- about the peculiarities of Russian speech etiquette and basic communicative tactics and strategies (request, gratitude, etc.);
- about the possibilities and ways of using electronic resources in the study of foreign languages (educational portals, websites, mobile applications, electronic translators and dictionaries).

the formation of skills (mastering different types of speech activity in a foreign language, as well as information resources in the field of learning foreign languages):

- read and understand simple sentences that are contained in ads, posters, advertisements, etc., understand and extract basic information from a short text on familiar topics (reading);
- build written statements on various topics (about yourself, about friends, about family, about study, about your free time) based on questions (writing).
- to understand by ear the statements of the interlocutor, as well as the content of short dialogues and monologues in situations of daily communication (<u>listening</u>);
- participate in dialogical communication, be able to answer / ask questions, in particular, about yourself, about friends, about family, about studies, about free time (speaking);
- choose an effective communication strategy in the context of intercultural dialogue (communication);
- use electronic educational resources (linguistic simulators) for the formation of speech skills, solid mastery of the lexical and grammatical structure of the language; electronic translators and dictionaries for speech understanding / production (IT).

skill building

- fluent reading of simple texts (monologues and dialogues);
- listening and understanding speech in the target language with a low speed of pronunciation;
- the use of the studied linguistic units in the classroom and in the conditions of real communication (everyday, socio-cultural, academic spheres of communication) for the production of oral and written statements;
- the use of educational portals, sites, video channels for the study of foreign languages for the formation of your own language learning strategy.
- the use of information technology for independent work and homework (electronic dictionaries, translators, linguistic simulators, etc.)

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement
Universal competencies (UC)-№4 - capable to use modern communication technologies, including in a foreign (s) language (s), for academic and professional interaction	UC-4.1. Expresses his thoughts in Russian and foreign languages in business communication UC-4.2. Complies with the norms of Russian and foreign languages when speaking in public UC-4.3. Compiles texts in Russian and foreign languages related to professional activities UC-4.4. Uses modern information and communication tools and technologies UC-4.5. Drafts, translates, edits various academic and professional texts
Universal competencies (UC)-№5 - able to analyze and incorporate a variety of cultures during the intercultural interaction	UC-5.1. Respects ethical norms and human rights . UC-5.2. Analyzes and takes into account ethnocultural, national and confessional peculiarities in professional activity UC-5.3. Forms a tolerant environment of interaction when performing professional tasks . UC-5.4. Overcomes barriers in the process of

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intoron	Itiiro	l interaction .
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^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 3 credits.

Type of the academic work	Total hours	Term	
		1	2
Students'contact work with the teacher (total)	54	28	26
Including:			
Lectures (L)			
Seminars (Sem.)			
Practical classes (PC)	54	28	26
Clinical practicals (CP)			
Laboratory-based practicals (LBP)			
Simulation-based practicals (SBP)			
Preparation for the examination (PE)			
Preparation for the credit (PC)			
Exam consultations (EC)			
Coursework (CW)			
Unsupervised work (UW) (total)	54	8	46
Examination control (EC)		•	
Total discipline workload	108/3	36	72

5. Course content:

The program content is oriented to national standard demands to the elementary level of Russian language as a foreign (State Standard of the Russian language as foreign Elementary. / Vladimirov et al TE -. 2- ed and extra -... M . - SPb .: "Zlatoust", 2001) .

5.1. Contents of the sections of the course

No	Name of the course section	Content of the section
1	Introductory phonetic	General characteristics of the Russian national
	course	language. Russian as the state language of the Russian
	(General information on	Federation. Methods of mastering Russian as a foreign
	the language and on the	language. Basic textbooks and information and communication
	peculiarities of his study	resources in the Foreign Language course, how to use them
	in the course "Foreign	(LMS Moodle, ZOOM video conferencing, communication
	Language". The	channel - WhatsApp). Resources for unsupervised
	graphics, phonetics, ortho	work (applications and websites for the study of the Russian
	epy of the modern	language for foreign citizens).
	Russian literary	Sound-alphabetic composition of the modern Russian literary
	language).	language. Writing and meaning of Russian letters, a syllable
		principle of Russian graphics.
		About the basic rules for reading words. Russian word stress
		and its main characteristics (different placing and
		fluidity). Sounds in speech: modification of vowel and

		consonant sounds. Basic intonation constructions in Russian
		Linguistic simulators for the formation of auditory-
		pronunciation skills. Online electronic keyboard with Russian
) () () () ()	fonts. Text-to-voice programs (ICE Book Reader Professional)
2	Main course: The main parts of speech of the	The composition of the word. Concept of word stem and ending. Noun. Gender and number of nouns. Case forms of
	Russian language and	nouns in the singular. Thematic group "Names of persons by
	their use	sex, age, profession, etc.", "Kinship terms". Russian proper
		names.
		Personal pronouns. Meaning, case forms and use.
		Possessive and demonstrative pronouns. Meaning, case forms
		and use. Coordination in gender and number with nouns. Full adjectives, gender and number agreement with nouns in the
		nominative case. Short adjectives in a limited set (рад, занят,
		болен, должен). Thematic groups "Color", "Size", etc.,
		evaluative adjectives (хороший, плохой).
		The verb as the center of the sentence. infinitive. Species-tense
		forms of the verb. Verb conjugations. Imperative. Verbs of intellectual activity (думать, читать, знать),
		existential (жить, находиться), perception (слушать,
		слышать, смотреть,), etc.
		Numerals. Cardinal and ordinal numbers in the nominative
		case. Quantitative-nominal combinations (одна книга, две,
		<i>mpu, четыре книги, пять книг</i>). Adverbs of place, time, measure and degree. predicative
		adverbs (можно, нельзя), interrogative adverbs (как, когда,
		zde)
		Prepositions (e , μa , μs , μs , μs , μs), conjunctions (μs , μs , μs)
		etc) particles (не, даже).
		Simple sentences: two-part and one-part. The order of words in a sentence (adjective + noun; adverbs + verb; subject group +
		predicate group), sentences with a locative. The concept of a
		subject and a predicate. Compound sentences with unions and,
		but, but, or, not only but also. Interrogative sentences with
		words (что, кто, как, какой, чей, куда, откуда)
		Electronic translators (PROMT machine translation system, Yandex translator, Google Translate)
		Electronic dictionaries (ABBY Lingvo live)
3	Speech topics (dialogues,	Acquaintance. Basic speech formulas (initiation of
	texts on everyday and	acquaintance). Features of Russian national etiquette. Politeness
	educational topics)	as a nationally specific category.
		Greetings, farewells in an informal and formal setting. Request, gratitude (to acquaintances and strangers).
		Communicative requesting tactics in educational and everyday
		situations.
		Verbal and written apology.
		Expression of communicative intentions in various situations
		(in a store, at a post office, in a cafe, in a library, at a university,
		in transport), an expression of an assessment, an attitude towards something / someone. Communication between doctor
		and patient. Dialogues "At the Doctor's", "At the Polyclinic",
	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

"At the Pharmacy".
Monological statements "Story about yourself", "My friend",
"Family", "Studying at the university", "Free time", "Well-
being".
Educational YouTube channels for learning Russian as a
foreign language: RikiStudy, RussianLessons.Net; Learn
Russian with RussianPod101.com

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1	Introductory phonetic course (Graphics, phonetics, orthoepy)			10				10	20
2	Main course: The main parts of speech of the Russian language and their use			22				22	44
3	Speech topics (dialogues, texts on everyday and educational topics)			22				22	44
	Total			54				54	108

$6. \ List \ of \ teaching \ materials \ for \ the \ course \ unsupervised \ work \ of \ students \ (including \ the \ use \ of \ e$ - learning opportunities, distance learning technologies (Moodle))

No.	Name of		
	the course	Types of the unsupervised work	Forms of control
	section		
1	section Introductory phonetic course (Graphics, phonetics, orthoepy)	(1) Performing phonetic exercises to develop auditory-pronunciation skills (listening and reading), including using IT: - site for students of NSMU https://russianlaunch.blogspot.com/p/phonetics.h tml - Talk2Russia mobile application (Phonetics section); - Russian pronunciation simulators: http://learnrussian.rt.com/phonetics/https://easypronunciation.com/ru/practice-russian-pronunciation-online http://www.russianforeveryone.com/Rufe/Lessons/Course1/Introduction/IntrUnit1/IntrUnit1.htm (IR training) (2) repetition of what was learned (Russian alphabet). Watching a video lecture https://edu.nsmu.ru/mod/url/view.php?id=11966 3 (3) Completion of written assignments for the	Control exercises in the lesson. Checking tasks in LMS Moodle.
		formation of graphic skills: mastering the	

3	Speech	pt=1064859&cmid=72942 1) Watching the training video "How to	Conversation in the
		"Lost" https://wordwall.net/play/9819/124/166 (12) Vocabulary test https://edu.nsmu.ru/mod/quiz/attempt.php?attem	
		(11) personal two-part sentences with the verb buy and locatives (mastering the prepositional case combination of nouns in the prepositional case with the prepositions B / HA) The game	
		declarative) https://wordwall.net/play/9575/043/720	
		&x=1Kqt (10) personal two-part sentences with the verb speak and adverbs (interrogative and	
		participants) https://quizlet.com/561076265/match?i=3ba7pu	
		https://wordwall.net/play/9390/873/554 (9) personal two-part sentences with verbs speak, write (competitive play between course	
		(8) personal verb forms in the present tense (speak and write) + question-answer unity	
2		(read and do) https://wordwall.net/play/9303/553/992	
		vocabulary and basic syntactic models) https://wordwall.net/play/9302/126/426 (7) personal verb forms in the present tense	
		cards /? x = 1jqt (6) repetition of training material (knowledge of	
		0%B0%D0%BA%D0%BE%D0%B9- %D1%86%D0%B2%D0%B5%D1%82- flash-	
		(5) color coding (work with cards) https://quizlet.com/ru/553744506/%D0%9A%D	
		"Color" https://wordwall.net/play/8219/686/966	Moodle. Testing.
		https://wordwall.net/play/7554/255/347 (4) vocabulary of the thematic group "Food" and	classroom. Checking tasks in LMS
	use	description + locative)	Oral questioning in the
	and their	https://wordwall.net/play/7339/901/959 (3) word order in the sentence (weather	
	the Russian language	(2) description of the weather (impersonal sentence with the words warm / cold)	complete the assignment.
	main parts of speech of	(1) numerals from 1 to 100 https://learningapps.org/5714683	the number of points and the time taken to
	course: The	and grammatical minimum:	assignments, grand total:
	Main	Professional) Interactive game tasks for mastering the lexical	Screenshots of completed
		(4) Reading text with preliminary preparation using text-to-speech software (ICE Book Reader	
		marks. Working with an online electronic keyboard.	
		printed and written font, upper and lower case letters and the rules for their use, punctuation	

topics	memorize new Russian words?"	lesson.
(dialogues,	https://www.youtube.com/watch?v=5pM359QIg	Individual survey.
texts on	zw	Online conference with
everyday	(2) Topic "Acquaintance"	native speakers
and	https://www.youtube.com/channel/UCHl9xvLM	(conversation on the
educational	-UJjj_bbtHhHmBA), (RikiStudy channel)	topics studied: getting
topics)	(3) Watching the training video "Phrases of	into real
	Russian speech etiquette" (greeting, invitation,	communication).
	acquaintance, etc.)	
	https://edu.nsmu.ru/mod/url/view.php?id=72941	
	(4) Watching the training video "I'm happy"	
	(expression of positive emotions in Russian)	
	https://www.youtube.com/watch?v=bmdp9W9k	
	YVw	
	and other training videos (at the teacher's	
	choice) on RikiStudy, RussianLessons.Net	
	channels	
	(https://www.youtube.com/channel/UCq1b1x1n	
	ZbV-rmZDb3XOB2g),	
	Learn Russian with RussianPod101.com	
	(https://www.youtube.com/channel/UCUg_JDa	
	HFAPEiFGDMddoIzA).	

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (pass/fail test, examination, term paper)

Stages of examination (pass/fail test)

- 1. Stage "Final test N_2 1" (performance of oral and written assignments on the LMS Moodle using an online microphone).
- 2. Stage "Preparation of an oral report and PowerPoint presentation on one of the proposed topics in Russian".
- 3. Stage "Final test №2" (performance of oral and written assignments on the LMS Moodle).

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

1. Дорога в Россию [Текст] : учеб. рус. яз. : (элементар. уровень)/ В. Е. Антонова [и др.] [Кн.] 1. - 10-е изд.: Златоуст: ЦМО МГУ, 2013. - 341, [1] с.: ил.

- 2. Овсиенко Ю.Г. Русский язык для начинающих (для говорящих на английском языке) [Текст] : [учебник]/ Ю.Г. Овсиенко Кн. 1: Русский язык, 2013. 472 с.: ил.
- 3. Алексеева О. В. Рабочая тетрадь по русскому языку как иностранному. Предложно-падежная система: учеб.-метод. пособие/ О.В. Алексеева. -Архангельск: Изд-во СГМУ, 2018. 150 с.

8.2. Supplementary literature

- 1. Методические рекомендации по русскому языку как иностранному для студентов I II курсов [Текст] /О. Н. Маслова; Север. гос. мед. ун-т. каф. рус. яз. как иностр. Архангельск: [б. и.], 2014. 37 с.
- 2. Петанова А.Ю., Коваленко Ю.Е. Время говорить по-русски! Сетевой учебнометодический интерактивный комплекс по русскому языку для начинающих. М., 2013. http://www.speakrussian.cie.ru/time_new
- 3. Богомолов А.Н. и др. В эфире Россия. Сетевой мультимедийный интерактивный учебник по русскому языку М., ЦМО МГУ. http://www.dist-learn.ru/default.asp?id=course begin
- 4. Рублева Е.В. и др. Learn Russian Сетевой мультимедийный учебник для начинающих изучать русский язык. http://learnrussian.rt.com

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

No	Resources	URL address	Resource Annotation	
	Resources for learning cur	riculum (language theory)		
1	Electronic library of	http://www.ns	The resource contains	
	NSMU	mu.ru/lib/	electronic versions of textbooks	
			on Russian as a foreign	
			language from the main list of	
			literature.	
2	Time to speak Russian	https://www.irlc.m	The site contains a variety of	
		su.ru/irlc_projects/s	materials (lessons, grammar	
		peak-	reference book, tests,	
		russian/time_new/	dictionaries, etc.). Convenient	
			interface, good structure of the	
			course.	
3	Lean Russian step by step	https://learnrussia	The site provides lessons on all	
		nstepbystep.com	grammatical topics necessary	
			for an elementary level, speech	
			models and vocabulary tests are	
			given in a separate section.	
4	Everyday Russian	https://everydayr	The site contains educational	
		ussianlanguage.c	materials (lessons with	
		<u>om</u>	explanations of grammar, tasks for	
			mastering vocabulary and	
			grammar).	

5	Russian for everyone	http://www.russian	The site contains educational
		<u>foreveryone.com</u>	materials, including an
			introductory phonetic course, as
			well as thematic lessons.
6	Quizlet	https://quizlet.	A resource containing a variety
		com	of flashcards for learning
			educational material as well as
			games.
	Resources for	training exercises and	monitoring
	Learningapps	https://learnin	A site containing exercise
		gapps.org	templates (for grading, multiple
			choice tests, etc.). Convenient
			for organizing students'
			independent work (memorizing
			language units). One of the
			ways to activate the
			mechanisms of memorizing
			new material with the help of
			motor and visual mechanisms.
	Wordwall	https://wordwa	A site containing templates for
		<u>ll.net</u>	various tasks, including
			quizzes, word games,
			crosswords, which can be used
			both interactively and in print.
	Quizlet	https://quizlet.	A resource containing a variety
		<u>com</u>	of flashcards for learning
			educational material as well as
			games.

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

No	Platform of EL DLT	Name of the e-course,	E-course implementation model
		authors, URL address	
1	MOODLE	1 course Foreign	depending on the conditions of
	(with the use of video lessons	language Russian	study:
	in ZOOM with the use of	Language as foreign	(1) blended learning + EC
	electronic boards MIRO)	(Ph.D., associate	
		professor of NSMU	(2) blended learning + EC
		O.V. Alekseeva)	
		https://edu.nsmu.ru/cour	
		se/view.php?id=1394	

8.5. The list of the software and information & reference systems

In carrying out the educational process, students and faculty use the following software: operating system - MS Windows Vista Starter, MS Windows Prof 7 Upgr; office suite - MS Office 2007; other software - 7-zip, AdobeReader, Kaspersky Endpoint Security

9. Material and technical facilities necessary for the educational process*

No	Name of the study room	Location of the study room	List of the main equipment of the study room
	classrooms for seminar- type classes № 1513 1514 1515 1515a 1516 1516a 1521 1521 a	NSMU Troitsky Ave., 51, building 1, 5th floor	each auditorium has 15-20 seats, double tables, a board, stands. Bookcases and / or shelves: No. 1513, 1514, 1515a, 1516, 1516a, 1521 Special equipment: No. 1513 - TV, laptop No. 1516 - TV, laptop No. 1516a - screen, projector

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

Ulg A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline Latin language

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1/2

Form of the interim assessment Pass/fail test

Department of foreign languages and Russian as a foreign language

Discipline workload 108 (academic hours) / 3 (credits)

Approved at the department meeting

Minutes No.

June 15th 2021

Head of the department

Vorobyova O.I

Author and compiler:

Khokhlova L.A., Doctor of Psychology, Associate Professor

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of <u>31.05.01 «General medicine».</u>

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects).

The discipline is related to prior subjects of the curriculum:- Russian language.

The discipline is related to subsequent subjects of the curriculum: as the course "Latin language" focuses on providing the basis of medical terminology mastering of the course is a necessary prerequisite for such disciplines as Anatomy, Physiology, Therapy, Surgery and others.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research.

2. Goal and tasks of the mastering of the discipline

The goal of mastering the course is a professionally oriented teaching of Latin language and laying the foundations of medical terminology competence required for professional communication.

Tasks arising from the goal: providing the knowledge necessary for operative use of medical nomenclature in the field of anatomical, clinical and pharmaceutical names.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement
Codes of the formed competences Universal competencies (UC)-№UK-4 Able to use modern communicative technologies, in a foreign language as well, for academic and professional interaction	ID-4.1. Expresses his/her thoughts in Russian and foreign languages in business communication ID-4.2. Complies with the norms of Russian and foreign languages when speaking in public
	ID-4.3. Compiles texts in Russian and foreign languages related to professional activities ID-4.4. Uses modern information and communication tools and technologies ID-4.5. Compiles, translates, edits various academic and professional texts

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 3 credits.

Type of the academic work	Total hours	Term
		2
Students'contact work with the teacher (total)	54	54
Including:		
Lectures (L)		
Seminars (Sem.)		
Practical classes (PC)	54	54
Clinical practicals (CP)		
Laboratory-based practicals (LBP)		
Simulation-based practicals (SBP)		
Preparation for the examination (PE)		
Preparation for the credit (PC)		
Exam consultations (EC)		
Coursework (CW)		
Unsupervised work (UW) (total)	54	54
Examination control (EC)		
Total discipline workload	108/3	108

5. Contents of the Course:

5.1. Contents of the sections of the course

No	Name of course section	Contents of the section
1	Section 1. Phonetics.	Topic 1. Rules of Reading.
2	Section 2. Basics of Anatomical	Topic 1. Parts of Speech.
	Terminology.	
3	Section 3. Basics of Clinical Terminology	Topic 1.Clinical Terms – Word
	and Word-building.	Combinations.
		Topic 2. Compound Clinical Terms
4	Section 4. Basics of Pharmaceutical	Topic 1. Pharmaceutical Terms and Rules for
	Terminology. Prescription.	Writing out Prescription.
		Topic 2. Chemical Nomenclature.

5.2. Sections and types of studies

No	Name of course section	L	P	S	LBP	СР	UW	Total hours
1	Section 1. Phonetics.							
	Topic 1. Rules of Reading		2				2	4
2	Section 2. Basics of Anatomical							
	Terminology.		18				18	36
	Topic 1. Parts of Speech.							
3	Section 3. Basics of Clinical							
	Terminology and Word-building.		2				2	4
	Topic 1.Clinical Terms – Word							
	Combinations.		10				10	20
	Topic 2. Compound Clinical Terms.							
4	Section 4. Basics of Pharmaceutical							
	Terminology. Prescription.		8					
	Topic 1. Pharmaceutical Terms and						8	16
	Rules for Writing out		8					10
	Prescription.						8	16
	Topic 2. Chemical Nomenclature.							10

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle)

No	Name of course section	Type of unsupervised work	Forms of
			control
1	Phonetics.	Reading words and word combinations	interview, tests
2	Basics of Anatomical	Phrases compilation	interview, tests
	Terminology.		
3	Basics of Clinical	Translating and explaining clinical terms	interview, tests
	Terminology and Word-		
	building.		
4	Basics of Pharmaceutical	Translation of prescriptions into Latin,	interview, tests
	Terminology.	writing out the drug names in Latin	
	Prescription.	with explanation of the used	
		common stems	

7. Forms of control

- 7.1. Current forms of control
- oral (an interview)
- written (test checking, checking synopses).

A subject list of test papers is shown at the Appendix №3 to syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (<u>pass/fail test</u>, examination, term paper)

Students have pass/fail test at the end of the first/second term.

Stages of the interim assessment:

- 1. Stage 5 anatomical terms to be rendered from Latin into English and 5 ones to be rendered from English into Latin;
- 2. Stage 15 clinical terms in total with some of them to be explained and some of them to be constructed using the studied term-elements;
- 3. Stage 4 pharmaceutical terms to be translated from English into Latin;
- 4. Stage 2 prescriptions to be translated from English into Latin;
- 5. Stage 3 names of the drugs to be written out in Latin with explanation of the used common stems.

Questions for a pass/fail test, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

Фомина, В. С. Латинский язык и основы медицинской терминологии на английском языке [Электронный ресурс]: учеб. пособие / В. С. Фомина. - 2-е изд., стер. - Архангельск: Издво СГМУ, 2011. - 121 с. - URL: <a href="http://nb.nsmu.ru/cgi-bin/irbis64r_11/cgiirbis_64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S21STN=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=1&S21P03=I=&S21STR=elb/Ф%2076-560294

8.2. Supplementary literature

Kostromina, T. A. The language of medicine as a means of professional communication [Text]: (guide in the language for foreign students of the med. dep.) / T.A. Kostromina; Kursk State Med. Univ. = Язык медицины как средство профессионального общения: учеб. пособие по дисциплине "Латин. яз. и основы мед. терминологии" для иностр. студентов лечеб. фак. (на англ. яз.) / Т.А. Костромина; Курс. гос. мед. ун-т. - Kursk: [s. n.], 2007. - 198 p. - References: p. 196. - ISBN 978-5-7487-1192-0 Mitrofanova T.A. Latin-English dictionary of clinical terms for learners [Текст]: словарь/ Т. A. Mitrofanova; Nizhny Novgorod Medical Academy. -N.Novgorod: Publishing House of Nizhny Novgorod State Medical Academy, 2007. -52 p.

Mitrofanova T.A. A Course book in the Latin language and the basics of anatomohistological terminology [Tekct]: manual/ T. A. Mitrofanova, T. G. Shirokogorodova; Nizhny Novgorod Medical Academy. -N.Novgorod: Publishing House of Nizhny Novgorod State Medical Academy, 2005. -153 p.

Mitrofanova T.A. The fundamentals of clinical terminology [Текст]: manual/ T. A. Mitrofanova, L. V. Shirokova, L. G. Strongin; Nizhny Novgorod Medical Academy. - N.Novgorod: Publishing House of Nizhny Novgorod State Medical Academy, 2007. -102 p.

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

No	Resources	URL address	Resource Annotation
1	Electronic library system «Консультант студента»	http://www.studmedlib.ru/	Medical literature on healthcare
2 Scientific library		http://iprbookshop.ru	Textbooks for higher medical education, industry literature, electronic versions of periodicals

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

Γ.	No	Platform of EL DLT	Name of the e-course,	E-course implementation
			authors, URL address	model

8.5. The list of the software and information & reference systems

Kaspersky endpoint Security. Номер лицензии 26FE - 191125 -134819 - 1 -8403. MS Office 2007. MS Win Starter 7. MS Windows Prof 7 Upgr. MS Windows Server CAL 2008 Device CAL. Номер лицензии 46850049, бессрочно Radmin Viewer 3. Radmin Server 3. № doc/11001793 Traffic inspector. Лицензионное соглашение № 1051- 08 от 10.04.2008

9. Material and technical facilities necessary for the educational process*

- 1			
	$N_{\underline{0}}$	Name of the study room	Location of the study List of the main equipment of

		room	the study room
1	Classrooms for conducting classes, ongoing monitoring and interim assessment No. 2355	adiministrative	A set of educational furniture (tables, chairs, screen, blackboard) teacher's workplace, workplaces for students (14 seats) Sets of demonstration equipment: a laptop, a projector Teaching aids: visual aids, handouts for practical exercises on all topics of the discipline.
1	Classrooms for conducting classes, ongoing monitoring and interim assessment No. 2356	adillilistrative	A set of educational furniture (tables, chairs, screen, blackboard) teacher's workplace, workplaces for students (20 seats) Sets of demonstration equipment: a laptop, a projector Teaching aids: visual aids, handouts for practical exercises on all topics of the discipline.
1	Classrooms for conducting classes, ongoing monitoring and interim assessment No. 2357	aummistrative	A set of educational furniture (tables, chairs, screen, blackboard) teacher's workplace, workplaces for students (22 seats) Sets of demonstration equipment: a laptop, a projector Teaching aids: visual aids, handouts for practical exercises on all topics of the discipline.

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

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APPROVED

Dean of the International Faculty of General Practitioner

A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline **Doctor's work Psychology**

Field of training 31.05.01 General Medicine

Year (s) of study 1/2 term (s)

Form of the interim assessment: credit

Department of Pedagogy and Psychology

Discipline workload 108 (academic hours) / 3 (credits)

Approved at the department meeting

Minutes No.

June 9th 2021

Head of the department

Vasilyeva E.Yu.

Author and compiler:

Gaikina M.Yu., Ph.D., Associate Professor of the Department of Pedagogy and Psychology

Nizovtseva T.R., Art. Lecturer at the Department of Pedagogy and Psychology

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects)

The discipline is related to prior subjects of the curriculum: Philosophy, Bioethics

The discipline is related to subsequent subjects of the curriculum: public health and health care, psychiatry, medical psychology, clinical disciplines, educational and industrial practice.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research

2. Goal and tasks of the mastering of the discipline

Goals: the formation of students' foundations of professional competencies necessary for solving typical problems in the field of psychological and pedagogical activities of future doctors. Tasks:

- 1. Awareness of the importance of the application of psychological and pedagogical knowledge in the activities of a doctor.
- 2. Formation of knowledge about the psychological foundations of a doctor's work, the psychology of a doctor's personality.
- 2. Formation of skills necessary for cooperation, productive interaction in the professional sphere.
- 4. Development of professionally important qualities, such as: communication skills, responsibility, humanity, empathy, tolerance, ability to reflect
- 3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

	T
Codes of the formed competences	Indicator of the competence achievement
Universal competencies (UC)-№1	
Able to carry out a critical analysis of problem	ID-1.1 Carries out a critical analysis of information
situations based on a systematic approach, develop an	based on a systematic approach
action strategy	ID-1.2. Identifies problem situations based on critical
	analysis
	ID-1.3. Develops an action strategy for solving problem
	situations based on a systematic and interdisciplinary
	approach
Universal competencies (UC)-№3	**
1	
Able to organize and manage the work of a team,	ID-3.1. Develops a teamwork strategy to achieve a set
developing a team strategy to achieve the settled goal	goal
	ID-3.2. Forms a team and leads its work in order to
	achieve the set goal
	ID-3.3. Defines the management style for effective team
	work
	ID-3.4. Arguments and defends his opinion, bears
	personal responsibility for the result
	ID-3.5. Resolves conflicts and contradictions within the
	team
Universal competencies (UC)-№6	
Able to determine and implement the priorities of his	ID-6.1. Evaluates its resources and their limits
own activity and ways to improve it based on self-	(personal, situational, temporary), uses them optimally
esteem and education throughout his life	for the successful fulfillment of professional tasks

	ID-6.2. Plans and controls independent activities in solving professional problems ID-6.3. Builds an educational trajectory of professional development
General professional competencies (GPC) -№10	
Able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security	ID-10.1. Knows how to apply modern information and communication technologies to solve problems of professional activity; carry out an effective search for information necessary to solve the problems of professional activity using reference systems and professional databases; use modern biomedical terminology; master and apply modern information and communication technologies in professional activities, taking into account the basic requirements of information security
Professional competencies *(PC)- №	
Ability and readiness to conduct sanitary and hygienic education of the population, train patients and medical workers in order to prevent the occurrence (or) spread of diseases, their early diagnosis, identify the causes and conditions of their occurrence and development	ID-1.1. Knows how to conduct sanitary and hygienic education among children and adults (their legal representatives) and medical workers in order to form a healthy lifestyle and prevent the most common diseases; to form in children and adults (their legal representatives) behavior aimed at maintaining and increasing the level of somatic health. ID-1.2. He is proficient in the methods and forms of organizing communication, techniques and methods of attracting the population to training in hygienic measures of a health-improving nature.

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 3 credits.

Type of the academic work	Total hours	Term
		2
Students'contact work with the teacher (total)	54	54
Including:		
Lectures (L)	18	18
Seminars (Sem.)	16	16
Practical classes (PC)	20	20
Clinical practicals (CP)		
Laboratory-based practicals (LBP)		
Simulation-based practicals (SBP)		
Preparation for the examination (PE)		
Preparation for the credit (PC)		
Exam consultations (EC)		
Coursework (CW)		
Unsupervised work (UW) (total)	54	54
Examination control (EC)		
Total discipline workload	108/3	108

5. Course content:

5.1. Contents of the sections of the course

$N_{\underline{0}}$	Name of the course	Content of the section

Π/Π	section	
1	2	3
1	Module 1. Physician work's psychology	 Professional medical practice. Stages of professional development. The system of continuing medical education. Accreditation system. Psychological and pedagogical aspects of a doctor's activities: patient education. Psychological and pedagogical aspects of a doctor's activities: interaction with patients of different ages. Multi-brigade approach in the professional activity of a doctor.
2	Module 2. Personality of a doctor	 Model of the doctor's personality: features of cognitive processes and professionally important qualities of a doctor. Crises of professional development. Professional deformations. Professional burnout. Professional motivation

5.2. Sections and types of studies

№ п/п	Name of the discipline sections	L	S	P		UW	Total
1	2	3	4	5	6	8	9
1	Module 1. Doctor's work psychology	10	8	10		28	56
2	Module 2. Personality of a doctor		8	10		26	52
		18	16	20		54	108

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control
	Module 1.Doctor's work psychology	Oral presentation	Interview, check of notes, glossary
	Module 2. Personality of a doctor	Oral presentation	Interview, check of notes, glossary

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (pass/fail test, examination, term paper) Stages of the interim assessment

Credit forms.

Stages of the test

- 1. Stage testing
- 2. Stage oral interview on issues

Questions for test and exam are given in Appendix No. 4 to the work program "Evaluation Tools"

9. Library supply

Provides educational, methodological, educational and scientific literature for the entire discipline as a whole. The list of educational literature for the study of the course consists of two parts: main and additional.

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

Vasilveva E.Yu.

Professional behavior of a healthcare professional in communicating with a patient: manual for medical students / E.Yu. Vasilyeva. -Arkhangelsk: NSMU Publishing, 2021.- 162 p.

Vasilyeva E.Yu.

Communication and patient education: a manual for medical student / E.Yu. Vasilyeva. –Arkhangelsk, 2016.-175p.

- 8.2. Supplementary literature
- 8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

Resources	URL address	Resource Annotation
Scientific Library of the Northern State Medical University	http://lib.nsmu.ru/lib/external/	Electronic educational resources
Scientific electronic library	www.elibrary.ru	The largest Russian information and analytical portal in the field of science,

	technology, medicine and education, containing abstracts and full texts of more than 25 million scientific articles and publications
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8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

No	Platform of EL DLT	Name of the e-course, E-course implementation model
		authors, URL address

8.5. The list of the software and information & reference systems

$9. \ Material \ and \ technical \ facilities \ necessary \ for \ the \ educational \ process^*$

№	Name of the study room	Location of the study room	List of the main equipment of the
			study room
	Classroom	Arkhangelsk,	Specialized
		Troitsky	educational furniture,
		prospect, 51, 3rd	15 tables, 30 chairs.
		floor No. 1359	Demonstration
			equipment:
			multimedia projector
			1, laptop 1,
			educational board 1

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APPROVED

Dean of the International Faculty of General Practitioner

Wey A. K. Sherstennikova

16th June 2021

SYLLABUS OF THE COURSE (MODULE)

Discipline Biophysics

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1/1, 2

Form of the interim assessment Pass/fail test

Department of Medical and biological physics

Discipline workload 72 (academic hours) / 2 (credits)

Approved at the department meeting:

Minutes No

June 16th 2021

Head of the department

A.A. Karyakin

Author and compiler:

Anikina Natalja Urevna, PhD

1. Position of the course (module) within the structure of the educational program

The program is drawn up following the requirements of Federal State Education Standard (FSES) for higher education in the field of 06.01.01 «General medicine». Cycle (division) of OOP, this discipline behaves to that, - mathematical, naturally - scientific. The basic training medical practice, necessary for studying chemical and profile the disciplines that are taught in parallel with the data subject or subsequent courses. Learning the disciplines of Physics, mathematics should be preceded by the study subjects: physiology, biochemistry, Microbiology and Virology, hygiene, public health, neurology, radiology and radiation therapy, infectious diseases. To study this discipline necessary knowledge and skills generated in the school course of physics and mathematics.

2. Goal and tasks of the mastering of the course

The goal of the study of educational discipline "Physics, mathematics" is the formation of medical students a systematic knowledge of the physical properties and physical processes in biological objects, necessary, as for learning other academic disciplines, and for direct formation of specialist medical practice.

The tasks of the discipline are:

- the formation of the modern scientific views about the surrounding material world;
- to develop in students the methodological orientation, essential for solving problems of evidence based medicine;
- the formation of the students 'logical thinking, the ability to accurately to formulate the problem, the ability to isolate the main and secondary the ability to draw conclusions based on the obtained measurement results;
- in the development of students mathematical methods solutions intellectual tasks aimed at maintaining the health of the population with into account the adverse impacts of the environment;
- the formation of the students 'environmental approach various biomedical and social problems; teaching students safety when working with medical equipment.

3. The planned results of the development of the educational program provided by the discipline (module).

Codes of formed competencies/formulations of	Competence achievement indicator
competencies	
GPC-10. Able to accept the principles of	AI-10.1. Is able to apply modern information
modern information technology and use them	technologies to solve the tasks of professional
to solve the problems of professional activity	activity; to carry out an effective search for
	information necessary to solve the tasks of
	professional activity using reference systems and
	professional databases; to use modern medical and
	biological terminology; to master and apply
	modern information technologies in professional
	activity, taking into account the basic requirements
	of information security.
	AI-10.2. Is able to use modern information
	and bibliographic resources, use special
	software and automated information systems
	to solve standard tasks of professional activity,
	taking into account the basic requirements of
	information security

4. Volume of the course (module) and types of the academic classes:

Total workload of the course is 2 credits.

Type of the academic work	Total hours	Term		
		1	2	
Students'contact work with the teacher (total)	36	18	18	
Including:				
Lectures (L)	12	6	6	
Seminars (Sem.)				
Practical classes (PC)	12	6	6	
Clinical practicals (CP)				
Laboratory-based practicals (LBP)	12	6	6	
Simulation-based practicals (SBP)				
Preparation for the examination (PE)				
Preparation for the credit (PC)				
Exam consultations (EC)				
Coursework (CW)				
Unsupervised work (UW) (total)	36	18	18	
Examination control (EC)				
Total discipline workload	72/2	36	36	

5. Contents of the course:

5.1. Contents of the sections of the course

No.	Name of the course section	Contents of the section
1	2	3
	Topic 1 Elements of biomechanics	Elements of biomechanics of human blood circulation. Elements of biomechanics of the musculoskeletal system and biophysics of human muscle contraction.
	Topic 2 Fundamentals of biophysics of biological membranes and electrography of tissues and organs	Biophysical foundations of the structure and functioning of biological membranes. Transport of substances through membranes. The potential of rest, the potential of action, its spread. Biophysical fundamentals of electrography of organs and systems. Physical basics of electrocardiography.
	Topic 3 Elements of biological electrodynamics	Basic ideas about the electrical properties of biological tissues. The effects of direct, pulsed current, low frequency, alternating current on biological tissues, application in medicine. The effects of RF, UHF, and microwave EMF bands on biological tissues.
	Topic 4 Elements of hearing and vision biophysics	Physical and physiological characteristics of sound. The Weber-Fechner Law. Sound research methods in medicine. Elements of hearing biophysics. Refractive and light-perceiving vision devices. Elements of biophysics of vision. Research methods of the human visual analyzer.
	Topic 5 Elements of ionizing radiation and dosimetry	Basic concepts of ionizing radiation and their effects on biological tissues. Basics of dosimetry

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1	Elements of biomechanics	2		6		2		6	16
2	Fundamentals of biophysics of biological membranes and electrography of tissues and organs	4		2		2		12	20
3	Elements of biological electrodynamics	2		2		2		6	12
4	Elements of hearing and vision biophysics	2		2		2		6	12
5	Elements of ionizing radiation and dosimetry	2				4		6	12

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course	Types of the	Forms of control
	section	unsupervised work	
1	Elements of biomechanics	Lecture, Solving problems	lecture notes, solving of practical tasks
2	Fundamentals of biophysics of biological membranes and electrography of tissues and organs	Lecture, Situational tasks	lecture notes, solving of practical tasks
3	Elements of biological electrodynamics	Lecture Situational tasks	lecture notes, solving of practical tasks
4	Elements of hearing and vision biophysics	Situational tasks	solving of practical tasks
5	Elements of ionizing radiation and dosimetry	Lecture, Situational tasks	lecture notes, solving of practical tasks

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).
 - 7.2. Forms of the interim assessment -pass & fail test

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

- 8.1. Compulsory literature
- 1. Compendium of Medical Physics, Medical Technology and Biophysics [Текст]: for students. -Arhangelsk: ИЦ СГМУ, 2008. -249 p.

8.2. Supplementary literature

8.3. The list of resources of the information and telecommunication environment "Internet", necessary for the development of the discipline (module)*

No	Name of resource	URL address	Resource annotation
1	EBS "Student Consultant»	http://www.stud medlib.ru/	Catalog of articles on various
			topics
2	Electronic library system	http://www.iprb	Catalog of articles, textbooks
	IPRbooks	ookshop.ru/	and manuals on various topics
3	Scientific Electronic	http://www.elib	Каталог научных статей по
	Library eLibrary	rary.ru	различной тематике
4	Electronic catalog and full-	http://lib.nsmu.r	Catalog of articles, textbooks
	text electronic library of	u/lib/	and manuals on various topics
	the NSMU		1
5	Web – medicine	http://webmed.i	Catalog of articles on various
		rkutsk.ru	topics
6	MedLib — medical library	http://med-	Catalog of articles, textbooks
		lib.ru/	and manuals on various topics

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)*

№	Source DLT	Name of the e-course,	E-course implementation
		author s, URL address	model
	Moodle	1 course English medium	mixed learning +EC
		Physics Mathematics.	
		Mathematics	
		https://edu.nsmu.ru/	
		course/view.php?id	
		=609	

- 8.5. The list of the software and information & reference systems
 - 1. Open physics" program test "t-Tester", simulation the program for determining the radioactive decay of elements, the browser Internet Explorer
 - 2. Multimedia lectures throughout the course of discipline

9. Material and technical facilities necessary for the educational process

No.	The name of the school's	Location of the study	List of the main equipment of
	office	room	the study room
1	A school's office of	Troitsky 51, No.	seats - 24
	laboratory and seminar	1437	Laptop
	type, group and		Projector
	individual		UHF devices - 2 pcs.
	consultations, current		Stands - 3 pcs.
	monitoring and		Oscilloscope - 2 pcs.
	intermediate		Electrocardiograph
	certification, for		US device 2 pcs
	unsupervised work.		
2	A school's office of	Troitsky 51, No.	Seats - 30
	laboratory and seminar	1438	Laptop
	type, group and		Projector
	individual		Screen

	consultations, current monitoring and intermediate certification, for unsupervised work.		Microscope - 4 pcs. Polarimeter - 1 pc. Portable polarimeter - 5 pcs. Refractometer - 2 pcs. Anamaloscope - 2 pcs. He-Ne Laser Electrocardiograph
3	A school's office of laboratory and seminar type, group and individual consultations, current monitoring and intermediate certification, for unsupervised work.	Troitsky 51, No. 1439	seats - 20 PCs connected to audiometers - 2 pcs. Bicycle ergometer - 1 pc. Exercise bike - 1 pc. Photoelectric colorimeter Electrocardiograph Laboratory balance Micrometers Calipers Settings with deflection indicator He-Ne Laser
4	A computer class of laboratory and seminar type, group and individual consultations, current monitoring and intermediate certification, for unsupervised work.	Troitsky 51, No. 1443	seats without PC - 14 PC - 11pcs Projector Screen Electrocardiograph Laboratory balance Micrometers Calipers Settings with deflection indicator
5	A computer class of laboratory and seminar type, group and individual consultations, current monitoring and intermediate certification, for unsupervised work.	Troitsky 51, No. 2518	seats without PC - 20 PC - 15 pcs Laptop Projector
6	A computer class of laboratory and seminar type, group and individual consultations, current monitoring and intermediate certification, for unsupervised work.	Troitsky 51, No. 2515	seats without PC - 16 PC - 13 pcs Laptop

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

Wey A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline **Economics**

Field of training 31.05.01 General Medicine

Year of study / term(s) 1/1

Form of the interim assessment **Pass/fail test**

Department of economy and management

Discipline workload 72 (academic hours) / 2 (credits)

Approved at the department meeting

Minutes No. 9

June 15th 2021

Head of the department

Zykova N.V.

Author and compiler:

Sukhanov Georgii Genrihovitch, candidate of economic science, associate professor

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum

The discipline is related to prior subjects of the curriculum:

The discipline of Economics is based on the knowledge obtained as part of a school course in economics or related subjects of secondary vocational education.

Subsequent subjects of the curriculum: Business Communications of the curriculum:

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: organizational and administrative /research

2. Goal and tasks of the mastering of the discipline

The goal is to develop future expert the necessary level of theoretical knowledge and the foundations of economic science, allowing to adequately assess and effectively implement emerging economic relations in professional medical activities. Tasks: development of economic thinking. The formation of knowledge about the basic provisions of the economic science. Foster in students the use of economic skills knowledge in practice

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement
Universal competencies (UC)-№ 10	IA -10.1 Uses basic economic knowledge to solve problems in all areas of life
	IA-10.2 . Justifies the adoption of economic decisions using the factors of economic planning and analysis to achieve the goals

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 2 credits.

Type of the academic work	Total hours	Term
		1
Students'contact work with the teacher (total)	36	36
Including:		
Lectures (L)	12	12
Seminars (Sem.)	12	12
Practical classes (PC)	12	12
Clinical practicals (CP)		
Laboratory-based practicals (LBP)		
Simulation-based practicals (SBP)		
Preparation for the examination (PE)		
Preparation for the credit (PC)		

Exam consultations (EC)		
Coursework (CW)		
Unsupervised work (UW) (total)	36	36
Examination control (EC)		
Total discipline workload	72/2	72

5. Course content:

5.1. Contents of the sections of the course

No.	Name of the course section	Contents of the section
1	Demand and Supply	The Allocation of Scarce Resources, Demand, Supply, Market Equilibrium, The price elasticity of demand, The price elasticity of supply, Effects of a Sales Tax
2	The ownership and management of the firms: short-run costs	Economic costs The law of diminishing returns Fixed costs, Variable costs The total costs, Average fixed, average variable, and average total costs, Marginal cost
3	The ownership and management of the firms: long-run costs	Long-Run Production Costs Firm Size and Costs The long-run ATC, or planning, curve, Economies and Diseconomies of Scale
4	Competition	Four Basic Market Models Characteristics of the Four Basic Market Models Competitive firms Pure monopoly Profit maximization by a pure monopolist Price discrimination Monopolistic competition
5	Macroecomics	Gross domestic product, Economic growth, Unemployment and Inflation/ Consumption and Saving. Investment, The aggregate demand–aggregate supply model (AD-AS model), Fiscal policy, Money and Banking, Monetary Policy

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total
									hours
1	Demand and Supply	2	4					6	12
2	The ownership and	2	4					7	13
	management of the firms:								
	short-run costs								
3	The ownership and	2	4					7	13
	management of the firms:								
	long-run costs								
4	Competition	2	4					8	14
5	Macroecomics	4	8					8	20

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control
1	Demand and Supply	Review of the lecture notes, solving of practical tasks,	Testing and quality assurance of solved practical tasks
2	The ownership and management of the firms: short-run costs	Review of the lecture notes, solving of practical tasks,	Testing and quality assurance of solved practical tasks
3	The ownership and management of the firms: long-run costs	Review of the lecture notes, solving of practical tasks,	Testing and quality assurance of solved practical tasks
4	Competition	Review of the lecture notes, solving of practical tasks,	Testing and quality assurance of solved practical tasks
5	Macroecomics	Review of the lecture notes, solving of practical tasks,	Testing and quality assurance of solved practical tasks

7. Forms of control

- 7.1. Current forms of control
- written (checking of tests, lecture notes, solving of practical tasks)

A theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (pass/fail test,)

Stages of the interim assessment

- 1. Stage TEST TO THE TOPIC 1
- 2. Stage TEST TO THE TOPIC 2
- 3. Stage- TEST TO THE TOPIC 3
- 4. Stage- TEST TO THE TOPIC 4
- 5. Stage- TEST TO THE TOPIC 5

Questions for a pass/fail test list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

- 8.1. Compulsory literature
- 1. McConnell, Campbell R. Economics : principles, problems, and policies / Campbell R. McConnell, Stanley L. Brue.— 17th ed.,876 p.
- 8.2. Supplementary literature
- 1. Distributing health care. Economics and ethical issues [Text] / P. Dolan, J.A. Olsen. New York: Oxford University Press, 2002. 153 p. References: p. 146-150. Index: p. 151-153. ISBN 0-19-263253-1
- 8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

№	Resources	URL address	Resource Annotation
1	ShadowStats Newsletter	http://www.sh	"John Williams' Shadow
		adowstats.com	Government Statistics" is an
		/	electronic newsletter service
			that exposes and analyzes flaws
			in current U.S. government
			economic data and reporting, as
			well as in certain private-sector
			numbers, and provides an
			assessment of underlying
			economic and financial
			conditions, net of financial-
			market and political hype.

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

No	Platform of EL DLT	Name of the e-course,	E-course implementation
		authors, URL address	model
1	https://edu.nsmu.ru	Economy.	Moodle
		G.Sukhanov,	
		https://edu.nsmu.ru/	
		course/view.php?id	
		=174	

8.5. The list of the software and information & reference systems MS Windows Prof 7 Upgr MS Office 2007 7-zip AdobeReader Kaspersky Endpoint Security Moodle

9. Material and technical facilities necessary for the educational process*

$N_{\underline{0}}$	Name of the study room	Location of the study	List of the main equipment of
		room	the study room
1	Lecture room	NSMU	Multimedia system
2	Computer class	NSMU	Computer class with
			multimedia system
			-

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A. K. Sherstennikova

June 26th 2020

SYLLABUS OF THE DISCIPLINE

Discipline Medical Informatics

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) I / 2

Form of the interim assessment **Pass/fail test**

Department of Medical and Biological Physics

Discipline workload 72 (academic hours) / 2 (credits)

Approved at the department meeting

Minutes No. 10

June 16th 2021

Head of the department

A.A. Karyakin

Authors and compilers:

Petrunicheva Oxana Zhorzhovna, Associate Professor of the Department of Medical and Biological Physics, Candidate of Pedagogical Sciences; Smertina Elena Vladimirovna, Senior Lecturer of the Department of Medical and Biological Physics, MAI (Master of Applied Informatics)

Arkhangelsk, 2021

1. Position of the course (module) within the structure of the educational program

The program is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

Block 1. Basic part.

The discipline is related to prior subjects of the curriculum: mathematics, physics

The discipline is related to subsequent subjects of the curriculum: fundamentals of research activity in medicine, evidence-based medicine

Mastering of medical informatics course is a necessary for wider use of modern information technology to improve the quality of patient care. These computers a technology helps the doctor efficiently, quickly and better organize their professional activity.

2. Goal and tasks of the mastering of the course

Medical informatics is introduced in course of education that the students have mastered the knowledge and skills in the field of modern information technologies for use in professional activity. Represented and interpreted data able to use for sciences and medical practice. Knowledge of modern computer technology able to apply in medical applications of Health. To give knowledge about methods and means of informatization of medical activities, such as information support of the doctor, medical and automated computer systems, and medical information systems.

Study of the discipline necessary to develop systematic approach to solving medical problems using information systems, ability to navigate in a variety of specialized medical information systems and their classification in order to select the least time-consuming and, at the same time, adequate application in their professional activity.

Main objectives:

- be able to organize and implement practical activities based on the use of information technology development of modern society;
- be able to provide a high level of professional activity based on modern methods of presenting information with the modern requirements information security;
- be able to make practical notes for the use of the performance;
- be find and prepare for the development of new information and techniques aimed patient management through public events by telecommunications.

3. List of the planned learning outcomes of the course (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement
General professional competencies	AI-10.1. Is able to apply modern information and
(GPC) - № 10	communication technologies to solve the tasks of
Able to solve standard tasks of	professional activity; to carry out an effective search
professional activity using information,	for information necessary to solve the tasks of
bibliographic resources, medical and	professional activity using reference systems and
biological terminology, information and	professional databases; to use modern medical and
communication technologies, taking	biological terminology; to master and apply modern
into account the basic requirements of	information and communication technologies in
information security	professional activity, taking into account the basic
	requirements of information security
	AI -10.2. He is able to use modern information and
	bibliographic resources, use special software and
	automated information systems to solve standard
	tasks of professional activity, taking into account the
	basic requirements of information security.

4. Volume of the course (module) and types of the academic classes: Total workload of the course is <u>2</u> credits.

Type of the academic work	Total hours	Term	
, , , , , , , , , , , , , , , , , , ,		2	
Students'contact work with the teacher (total)	36	36	
Including:			
Lectures (L)	12	12	
Seminars (Sem.)			
Practical classes (PC)	24	24	
Clinical practicals (CP)			
Laboratory-based practicals (LBP)			
Simulation-based practicals (SBP)			
Preparation for the examination (PE)			
Preparation for the credit (PC)			
Exam consultations (EC)			
Coursework (CW)			
Unsupervised work (UW) (total)	36	36	
Examination control (EC)			
Total discipline workload	72/2	72	

5. Contents of the course:

5.1. Contents of the sections of the course

No.	Name of the course section	Contents of the section
1	2	3
1	General theory of medical informatics	The concept of medical informatics. The subject and object of study in medical informatics. The main goal of medical science. The generation of computers and medical tasks that it were resolved.
2	Creation and organization of medical records for storage of medical data	Medical information systems. Classification of medical information systems. The basic concept of medical information system. The levels of medical information systems in modern health care facilities. The principle organization of automated workstation place.
3	Information modeling and analysis as a way to solve the medical tasks	The basic principles of practical work in MS-Word. Organization of data's in Microsoft Excel. Basic concepts and principles of work in spreadsheets. Construction of tables and graphs. Create the computer modules. Counting data by the formulas for analyzing in process of statistics. The basic concepts of study the principle of database. Modules of databases.
4	Computer networks as a source of quick access to a global repository of medical literature	IT services in global information network Internet. Electronic platforms which use to search medical books.

5	Information security and protection of	Basic concept of information security. Modern
	data	ways of protection personal data

5.2. Sections and types of studies

No.	Name of the course	L	P	S	CP	LBP	SBP	UW	Total
	section								hours
1	2	3	4	5	6	7		8	9
1	General theory of medical informatics	2	2					2	6
2	Creation and organization of medical records for storage of medical data	2	10					12	24
3	Information modeling and analysis as a way to solve the medical tasks	4	8					12	24
4	Computer networks as a source of quick access to a global repository of medical literature	2	2					6	10
5	Information security and protection of data	2	2					4	8

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control
1	General theory of medical informatics	Preparation of short reviews on given topics.	Checking of written tasks or essays.
2	Creation and organization of records for storage of medical data	Solving of practical tasks.	Checking of practical tasks
3	Information modeling and analysis as a way to solve the medical tasks	Solving of practical tasks.	Checking of practical tasks
4	Computer networks as a source of quick access to a global repository of medical literature	Solving of practical tasks.	Checking of practical tasks
5	Information security and protection of data	Preparation of short reviews on given topics.	Checking of written tasks or essays.

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, defense of a project)
- written (tests, term papers, checking of lecture notes, solving of practical tasks, presentation).

A theme list of abstracts, reports, essays, review and term papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus 'Set of the evaluation tools'.

7.2. Forms of the interim assessment (pass & fail test, examination, term paper) Stages of the examination (pass & fail test)

1. Stage - <u>written test</u> (name of the stage)

2. Stage - <u>practical task</u> (name of the stage)

3. Stage- <u>computer test/oral conversation on examination question</u> (name of the stage)

Questions for a pass & fail test and an examination are shown at the Appendix No 4 of the syllabus 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

- 1. **Omelchenko V.P.** Medical Informatics [Электронный ресурс]: textbook/ V. P. Omelchenko, A. A. Demidova. -Москва: ГЭОТАР-Медиа, 2020. -480 c.- URL: https://www.studentlibrary.ru/ru/book/ISBN9785970455852.html
- 2. Хай Г.А. Информатика для медиков [Текст] : учеб. пособие/ Г. А. Хай. Санкт-Петербург: СпецЛит, 2009. -222,[1] с.
- 3. Хай Г.А. Информатика для медиков [Электронный ресурс] : учеб. пособие/ Г. А. Хай. -Санкт-Петербург: СпецЛит, 2009. -222,[1] с. Режим доступа: http://www.studmedlib.ru/

8.2. Supplementary literature

- 1. Biostatistics & Medical Informatics | University of Wisconsin. https://www.biostat.wisc.edu/
- 2. Glyanz D/ Biostatistik/ 2010 Ebook
- 3. International Journal of Medical Informatics. www.elsevier.com/...medical-informatics/
- 4. **Зарубина Т.В.** Медицинская информатика [Электронный ресурс] : учебник/ Т. В. Зарубина, Б. А. Кобринский ; ред.: Т. В. Зарубина, Б. А. Кобринский: ГЭОТАР-Медиа, 2016. -512 с.- URL:

http://www.studentlibrary.ru/book/ISBN9785970436899.html

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

№	Resources	URL address	Resource Annotation
1	American College of	https://en.wikipedia.org/wik	The American College of
	Medical Informatics	i/American_College_of_Me	Medical Informatics (ACMI) is
		dical_Informatics	a college of elected fellows
			from theUnited States and
			abroad who have made
			significant and sustained
			contributions to the field of
			medical informatics.
2	Free book Medical	https://www.researchgate.ne	Medical Informatics and
	Informatics and Bio-	t/publication/271703671_M	Bioinformatics. design and
	informatics	edical_informatics_and_bioi	implementation of the
		nformatics	Massachusetts. General Hospital

	Utility Multi-Programming.
	System (MUMPS) by Barnett's
	group – the first. programming
	language and database system.
	tailored to healthcare.

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

№	Platform of EL DLT	Name of the e-course,	E-course implementation model
		authors, URL address	
1	LMS Moodle	https://edu.nsmu.ru/cour	Web-support
		se/view.php?id=256	

9. Material and technical facilities necessary for the educational process $\!\!\!\!\!^*$

№	Name of the study room	Location of the study room	List of the main equipment of the study room	
1	Учебная аудитория для проведения занятий лекционного типа № 2403 Морской медицины, административный учебный корпус, 4 этаж	163000, г. Архангельск, просп. Троицкий, д. 51	а) перечень основного оборудования: Комплект учебной мебели (столы, стулья экран, доска) рабочее место преподавателя рабочие места для обучающихся на 30 мест. б) наборы демонстрационного оборудования колонки, моноблок, проектор, экран в) перечень учебно-наглядных пособий: стенды г) используемое программное обеспечение: Казрегѕку endpoint Security. Номер лицензи 26FE-191125-134819-1-8403. МЅ Office 2007. МЅ Win Starter 7. МЗ Windows Prof 7 Upgr. МЅ Windows Serve CAL 2008 Device CAL. Номер лицензи 46850049, бессрочно Radmin Viewer 3. Radmin Server 3. Номе документа 11001793 Traffic inspector. Лицензионное соглашение № 1051-08 от 10.04.2008, бессрочно	
2	Компьютерный класс № 2515, административный учебный корпус, 5 этаж	163000, г. Архангельск, просп. Троицкий, д. 51	а) перечень основного оборудования: Комплект учебной мебели (столы, стулья, экран, доска) рабочее место преподавателя, рабочие места для обучающихся на 10 мест. б) наборы демонстрационного оборудования Автоматизированное рабочее место (ПК в сборе+монитор+клавиатура+мышь) — 10 шт., доска 1-но элементная. в) перечень учебно-наглядных пособий: Наглядные пособия, раздаточный материал к практическим занятиям по всем темам дисциплины. г) используемое программное обеспечение: Казрегsky endpoint Security. Номер лицензии 26FE-191125-134819-1-8403. МS Office 2007. MS Win Starter 7. MS Windows Prof 7 Upgr. MS Windows Server CAL 2008 Device CAL. Номер лицензии 46850049, бессрочно Radmin Viewer 3. Radmin Server 3. Номер документа 11001793 Traffic inspector. Лицензионное	

			соглашение № 1051-08 от 10.04.2008, бессрочно
3	Компьютерный класс № 2518, административный учебный корпус, 5 этаж	163000, г. Архангельск, просп. Троицкий, д. 51	а) перечень основного оборудования: Комплект учебной мебели (столы, стулья, экран, доска) рабочее место преподавателя, рабочие места для обучающихся на 20 мест. б) наборы демонстрационного оборудования Монитор «Асег» - 4 шт., монитор Samsung − 8 шт., мышь д/компьютера − 12 шт., системный блок- 12 шт., телевизор в) перечень учебно-наглядных пособий: Наглядные пособия, раздаточный материал к практическим занятиям по всем темам дисциплины. г) используемое программное обеспечение: Казрегѕку endpoint Security. Номер лицензии 26FE-191125-134819-1-8403. МЅ Office 2007. МЅ Win Starter 7. МЅ Windows Prof 7 Upgr. МЅ Windows Server CAL 2008 Device CAL. Номер лицензии 46850049, бессрочно Radmin Viewer 3. Radmin Server 3. Номер документа 11001793 Тгаffic inspector. Лицензионное соглашение № 1051-08 от 10.04.2008, бессрочно

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline Chemistry

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1/2

Form of the interim assessment Pass/fail test

Department of the general and bioorganic chemistry

Discipline workload 108 (academic hours) / 3 (credits)

Approved at the department meeting

Minutes No.

June 8th 2021

Head of the department

E.A. Ayvazova

Author and compiler:

Zubova Natalya Alexandrovna, Ph. D., Senior lecturer

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects)

The discipline is related to prior subjects of the curriculum: physics, mathematics, biology.

The discipline is related to subsequent subjects of the curriculum: normal physiology, physiology of the maxillofacial region; pathophysiology, pathophysiology of the head and neck; biological chemistry, biochemistry of the oral cavity.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research

2. Goal and tasks of the mastering of the discipline

The purpose - formation of system knowledge of a subject, the skills necessary for further studying of biological and medical disciplines.

Tasks of discipline:

- to provide general-theoretical chemical training of the doctor, assimilation of the fundamental ideas, concepts, laws, theories necessary for studying of other chemical and professional disciplines;
- to create chemical knowledge and abilities of students as a basis of future successful profession of a physician;
 - to show interrelation of chemistry with biological and medical disciplines;
 - to form natural-science thinking of experts of a medical profile.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement			
Глава 1 УК-1 Способен осуществлять критический анализ проблемных ситуаций на основе системного подхода, вырабатывать стратегию действий.	Глава 2 ИД-1.1 Осуществляет критический анализ информации на основе системного подхода ИД-1.2. Идентифицирует проблемные ситуации на основе критического анализа ИД-1.3. Разрабатывает стратегию действий для решения проблемных ситуаций на основе системного и междисциплинарного подходов.			
Глава 3 ОПК-10 Способен решать стандартные задачи профессиональной деятельности с использованием информационных, библиографических ресурсов, медико-биологической терминологии, информационно-коммуникационных технологий с учетом основных требований информационной безопасности.	Глава 4 ИД-1. Умеет применять современные информационно-коммуникационные технологии для решения задач профессиональной деятельности; осуществлять эффективный поиск информации, необходимой для решения задач профессиональной деятельности с использованием справочных систем и профессиональных баз данных; пользоваться современной медико-биологической терминологией; осваивать и применять			

современные информационно-
коммуникационные технологии в
профессиональной деятельности с учетом
основных требований информационной
безопасности ИД-2. Умеет использовать
современные информационные и
библиографические ресурсы, применять
специальное программное обеспечение и
автоматизированные информационные
системы для решения стандартных задач
профессиональной деятельности с учетом
основных требований информационной
безопасности.

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes: Total workload of the course is 3 credits.

Type of the academic work	Total hours	Term
		2
Students'contact work with the teacher (total)	54	54
Including:		
Lectures (L)	18	18
Seminars (Sem.)		
Practical classes (PC)	18	18
Clinical practicals (CP)		
Laboratory-based practicals (LBP)	18	18
Simulation-based practicals (SBP)		
Preparation for the examination (PE)		
Preparation for the credit (PC)		
Exam consultations (EC)		
Coursework (CW)		
Unsupervised work (UW) (total)	54	54
Examination control (EC)		
Total discipline workload	108/3	108

5. Course content:

5.1. Contents of the sections of the course

№	Name of the course section	Contents of the section					
1	Introduction.	Value of chemistry in biology and medicine.					
	Atom structure.	Quantum-mechanical model of atom. Electronic cloud. Nuclear					
	Chemical bond.	orbital. The characteristic of a power condition of an electron in ator					
		system of quantum numbers: main (n), orbital (l), magnetic (m) and					
		spin (s) quantum numbers. Multielectronic atoms. Paulie's principle.					
		The maximum number of electrons on orbitals, subtotals and levels.					
		Principle of a minimum of energy. Sequence of filling with electrons					
		of nuclear orbitals. Electronic formulas s-, p-, d-elements. Filling with					

		electrons of nuclear orbitals of one subtotal – Hund's rule. Electronic and graphic formulas (spin schemes) of elements. Communication between an electronic structure of atoms and the provision of elements in periodic system: s-, p-, d-, f-families of elements. Radiuses of atoms. Mechanism and ways of formation of a covalent chemical bond. Communication length. Binding energy. Orientation of a chemical bond. σ-and π-связь. Hybridization of nuclear orbitals of atoms of Ve, In, With on the example of formation of molecules of Ven2, BH3, CH4.
		Ionic communication as extremely polarized covalent communication. Oxidation level of atoms. Gomo-and heterolytic rupture of communication. Types of covalent molecules. The factors defining polarity of molecules. Dipolar moment of molecules.
2	Chemical thermodynamics.	Concept about thermodynamic system. The systems isolated, closed, opened. Parameters of system: intensive, extensive. Concept of thermodynamic process; classification of processes. Thermodynamic concepts of warmth, work of system. Internal energy - function of a condition of system. Formulation of the I beginning of thermodynamics. Thermochemistry. Thermal effect of chemical reaction (reaction enthalpy). Hess's law and consequences from it, their application in thermodynamic calculations. Isobaric and isothermal potential. II beginning of thermodynamics; its application to chemical reactions. Use of thermodynamic functions for definition of chemical characteristics of substance.
3	Chemical kinetics. Catalysis. Chemical balance	The law of the operating masses. Reversible and irreversible chemical reactions. Constant of chemical balance. Le Chatelie's principle – Brown. Catalysis and catalysts. Theories of a homogeneous and heterogeneous catalysis. Biocatalysts. Features of biocatalytic processes. A catalysis role in activity of an organism.
4	Solutions of electrolytes. Strong and weak electrolytes. Colligative properties of solutions.	Main definitions: solution, solvent, the dissolved substance. Solubility. Water as one of the most widespread solvents. A role of water solutions in activity of organisms. Concept kolligativnykh properties of solutions. The law of Guys – Goffa about osmotic pressure. An osmosis role in biosystems. Plazmoliz, turgor. Hypo - from - and hypertensive solutions. Theory of solutions of strong electrolytes. Ionic force of solutions, coefficient of activity and activity of ions. Ionic work of water. Hydrogen pH indicator solutions of strong acids and bases. Solutions of weak electrolytes. Constant of ionization (dissociation).
6	Buffer systems.	Buffer solutions. Their classification. pH buffer systems. Genderson's equation — Gasselbakh for acid and main buffers. Mechanism of action of buffer systems. Buffer capacity. Buffer systems in chemical practice and in live organisms, their biological value.
7	Carbohydrates: monosaccharides, bioses, polysaccharides.	Monosaccharides, their classification. Stereoisomerism of monosaccharides; \mathcal{A} - and L-stereochemical ranks. Open and cyclic (piranozny, furanozny) forms, their interconversions in solution; α - and β - anomer. Fischer and Heuors's formulas. Tsiklooksotautomeriya; mutarotation. Chemical properties of

		monosaccharides. Oxidation-reduction reactions of monosaccharides. Value of these reactions. About - and gligozida N Their education (reaction mechanism) and hydrolysis; biological role. Reaction of phosphorylation of monosaccharides and its biological value. Oligosaccharides; Bioses, their structure, tsiklooksotautomeriya. The restoring and not restoring bioses, examples. Hydrolysis of bioses. Biological functions. Polysaccharides; classification of polysaccharides. Gomopolisakharida: starch, glycogen. Structure, hydrolysis, biological role. Heteropolysaccharides. Representatives of heteropolysaccharides: hyaluronic acid, heparin. A structure, a biological role in an organism.
8	Amino acids and proteins. Structure, properties.	Structure and stereoisomerism α - the amino acids which are a part of proteins. Replaceable and irreplaceable amino acids. Classification taking into account the chemical nature of the radical and its ability to interact with water. Acid and main properties of amino acids. Isoelectric point of neutral, sour and main amino acids. Chemical properties α - amino acids as heterofunctional connections: formation of intra complex salts, reactions of an eterifikation. Interaction with nitrogenous acid and formaldehyde. Biologically important reactions of amino acids. Formation of amino acids as a result of recovery amination and reaction of transamination. Deamination reactions (oxidizing and not oxidizing), decarboxylations. Conditions of their course in an organism. Polypeptides and proteins. Education, hydrolysis (partial and full). Electronic and spatial structure of peptide group. Primary structure of peptides and proteins, methods of its definition Secondary structure of proteins (α -spiral and β -folded structure); stabilization in space. Tertiary structure of proteins; the interactions stabilizing tertiary structure.
9	Nucleinic acids. Nucleotide coenzymes.	Structure, biological role in an organism. Structural components of nucleinic acids: nucleinic bases (pirimidinovy and purinovy), pentoza, phosphoric acid. Laktimlaktamny tautomeriya of the nitrogenous bases. Nucleosides, nucleotides, nature of communication between their structural components; hydrolysis. Biological functions of nucleotides (ATP, OVER). Primary and secondary structures of nucleinic acids, their nucleotide structure. The interactions stabilizing secondary structure of DNA. Biological role of DNA and RNA.
10	Lipids. Low-molecular regulators .	General idea about lipids. Classification of lipids. Structural components of lipids – fatty highest acids; their structure and properties. Triatsilglitserina; structure, structure, properties (hydrolysis, reactions of accession, oxidation), biological role. Glitserofosfolipida, their structure, structure, hydrolysis, biological role. Connections of the steroid nature: cholesterol, steroid hormones, bilious acids. Idea of a chemical structure and biological role.

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	$\mathbf{U}\mathbf{W}$	Total	l
									hours	I

1	Atom structure. Chemical bond	2	2	6	10
2	Chemical thermodynamics		2	6	8
3	Chemical kinetics. Catalysis.	2	6	4	12
4	Solutions of electrolytes. Strong and slabyeelektrolita. Buffer systems.	2	4	4	10
5	Colligativy properties of solutions.	2	4	4	10
6	Nomenclature of organic compounds. Spatial structure of organic compounds. Acid and main properties of organic compounds.	-	2	6	8
7	Carbohydrates: monosaccharides, bioses, polysaccharides	2	6	8	16
8	Amino acids and proteins. Structure, properties	2	4	6	12
9	Nucleic acids	2	2	6	10
10	Lipids. Low-molecular regulators	2	4	4	10

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control
1	Atom structure. Chemical bond	Performance of homeworks. DES Moodle	Examination check
2	Chemical thermodynamics. Chemical kinetics. Catalysis. Chemical balance	http://edu.nsmu.ru/course/view.php?id=621	
3	Solutions of electrolytes. Strong and weak electrolytes. Kolligativny properties of solutions. Buffer systems.	Performance of homeworks. DES Moodle http://edu.nsmu.ru/course/view.php?id=621	Examination check
4	Main classes of biopolymers	Performance of homeworks, drawing up the report of the performed laboratory works DES Moodle http://edu.nsmu.ru/course/view.php?id=621	Messages on occupations, performance of laboratory works, check of examinations

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (pass/fail test, examination, term paper) Stages of the interim assessment

α.	c	• •	/ / / 1	
Stages	α t	examination	(nacc/tail	tect)
Diagos	\mathbf{v}	CAaiiiiiauon	1 Dass/ Tair	uosi,

1. Stage -	final test
(name of	the stage)

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

- 8.1. Compulsory literature
- 1. Glinka N. L. General chemistry [Text]: studies. for higher education institutions / N. L. Glinka; edition: V. A. Popkov, A. V. Babkov. the 18th prod., additional and reslave. Moscow: Юрайт, 2011.-886 pages.
- 2. Yershov Ю.А.Общая chemistry / Yershov YU.A. M.: The higher school, 2004.
- 3. Slesarev V. I. Fundamentals of chemistry live / Slesarev V. I. SPb: Himizdat, 2008.
- 4. Glinka N. L. General chemistry / Glinka of N. L. M.: Integral press, 2008.
- 8.2. Supplementary literature
- 1. Kireev V. V. Short course of physical chemistry. M.: Chemistry, 2005.
- 2. Kalaus V., Pavlichek Z. Biofizicheskaya chemistry. М.:Мир, 2004.
- 3. Pisarenko A.P., etc. Course of colloidal chemistry. M.: The higher school, 2008.
- 4. Otto. M. Modern methods of analytical chemistry. The translation from German under the editorship of A. V. Garmash. M of a.:tekhnosfer, 2006. 543 pages.
- 8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

No	Resources	URL address	Resourc
			e
			Annotat
			ion
1	Zholnin A. V. General chemistry [An	http://www.studmedli	
	electronic resource]: studies. for medical	<u>b.ru/</u>	
	higher education institutions / A. V.		
	Zholnin; under the editorship of V. A.		
	Popkov, A.V. Zholin Moscow:		
	GEOTAR-media, 2012399 pages: silt.		
2	Chemistry. Part I. General chemistry [An	http://lib.nsmu.ru/lib/	
	electronic resource]: methodical	readers/elektronnaya-	
	recommendations / E. A. Ayvazova, E. A.	<u>biblioteka.php</u>	
	Zhuravlev [etc.] Arkhangelsk:		
	Publishing house of Northern state		
	medical university, 2015 84 pages.		
3	Puzakov S. A Chemistry [An electronic	http://www.studmedli	_

resource]: textbook / Page. And Puzakov.	<u>b.ru/</u>	
- the 2nd prod., испр. and additional		
Moscow: GEOTAR-media, 2006640		
pages - the access Mode:		
http://www.studmedlib.ru/.		

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

$N_{\underline{0}}$	Platform of EL DLT	Name of the e-course,	E-course implementation
		authors, URL address	model
	Moodle	Anokhina N. A. Ph.	Mixed learning + EC
		D., associate	
		Professor, T.	
		Korelskaya A. Ph.	
		D., associate	
		Professor,	
		Zubova N. A. Ph.	
		D., senior lecturer.	
		https://edu.nsmu.ru/	
		course/view.php?id	
		=621	

8.5. The list of the software and information & reference systems

MSWindowsVistaStarter,

MSWindowsProf 7 Upgr;

офисный пакет

MS Office 2007, 2010 (Excel, Word, Outlook, Power Point)

другое ПО -

Google Docs, Google Диск

Zoom

LMS MOODLE

7-zip

AdobeReader

9. Material and technical facilities necessary for the educational process*

No	Name of the study	Location of the study	List of the main equipment of the
	room	room	study room
1	Specialized	Prospekt Troitskiy	Set of chemical ware and
	chemical laboratory	51	reactants, scales technical,
	,	1449, 1451, 1453	electronic, analytical, the
			projective equipment for
			demonstration of lectures,
			computers for use of computer
			programs of control of
			knowledge of students. A
			multimedia projector (for the
			presentation of lectures). A set of
			ware and chemical reactants for
			all laboratory works. Scales:
			technical, electronic. Set

sharosterzhnevykh of models of
molecules. Tables, schemes and
drawings on subjects.

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APPROVED

Dean of the International Faculty of General Practitioner

My A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline **Biology**

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) I / 1,2

Form of the interim assessment **Examination**

Department of medical biology and genetics

Discipline workload **216** (academic hours) / **6** (credits)

Approved at the department meeting

Minutes No. 10

June 14th 2021

Head of the department

foron

N.A. Bebyakova

Author and compiler:

Kurochkina E.L. - Candidate of Biological Science, Associate professor of Department of Medical Biology and Genetics.

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum

The discipline is related to prior subjects of the curriculum: -

The discipline is related to subsequent subjects of the curriculum: Microbiology, Medical genetics, Infection diseases.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive, diagnostic and research.

2. Goal and tasks of the mastering of the discipline

Biology course provides specialist training, which owns the following types of professional activity: a preventive, diagnostic, research. It is necessary to form a clinical judgment of future doctors in the examination of biological laws of human life, given its specific characteristics of the morphological and functional organization of the genetic apparatus.

To form an ecological thinking which is based on the knowledge of the general laws of human relationships with nature. Establish an active role in solving the problems of the human gene pool, increasing life expectancy in modern conditions and the preservation of life on Earth.

Tasks:

- 1. The study of the fundamental properties of living at all levels of organization of life from the perspective of an evolutionary approach
- 2. The study of the biological bases of human life of the organism (ontogeny, heredity, variability, reproduction) with a view to distinguishing normal and pathological development.
- 3. Study of the relationship of organisms with their environment at the individual level, populations, ecological communities, the biosphere as the basis of human ecology.
- 4. The study of human relationships with the environment, including:
- a) parasitism as an ecological phenomenon, structural features and life cycles of parasites, as the basis for the formation of ideas about environmental diseases.
- b) the influence of abiotic environmental factors on the human body as the basis of formation of representations about the environmental variability and adaptive types of people.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement (I)
General professional competencies (GPC) -	I – 5.1. knows the anatomy, histology,
№ 5	topographic anatomy and physiology of
Ablity to evaluate morphofunctional,	human organs and systems
physiological states and pathological	I – 5.2. determine and evaluate
processes in the human body for solving	morphofunctional, physiological states and
professional tasks	pathological processes in the human body
General professional competencies (GPC) -	I - 10.1 use modern information and
№ 10	communication technologies to solve the
Ability to solve standard tasks of professional	problems of professional activity; to carry out
activity using information, bibliographic	an effective search for information necessary
resources, medical and biological terminology,	to solve the problems of professional activity
information and communication technologies,	using reference systems and professional
taking into account the requirements of	databases; to use modern terminology; to
information security.	master and apply modern information and

communication technologies in professional
activity, taking into account the basic
requirements of information security
I-10.2. use modern information and
bibliographic resources, use special software
and automated information systems to solve
standard tasks of professional activity, taking
into account the basic security requirements

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is _6_ credits.

Type of the academic work	Total hours	Term	
	nours	1	2
Students'contact work with the teacher (total)	92,3	40	52,3
Including:			
Lectures (L)	30	14	16
Seminars (Sem.)	4	2	2
Practical classes (PC)	54	24	30
Clinical practicals (CP)			
Laboratory-based practicals (LBP)	2		2
Simulation-based practicals (SBP)			
Preparation for the examination (PE)	0,3		0,3
Preparation for the credit (PC)			
Exam consultations (EC)	2		2
Coursework (CW)			
Unsupervised work (UW) (total)	90	68	22
Examination control (EC)	33,7		33,7
Total discipline workload	216/6	108	72

5. Course content:

5.1. Contents of the sections of the course

No	Name of the course section	Content of the section
I.	GENETICS	
	Topic 1. CELL BIOLOGY	Structural-functional organization of molecular-genetic
		and cell levels. Levels of living matter organization. Optic
		systems in biological investigations and its usage. Cell
		morphophysiology. Cell structure and functions.
		Procariotic and eucariotic cells.
		Structural-functional organization of molecular-genetic
		and cell levels. Cell as an elementary life unit. Cell cycle
		and its stages Mitosis and its main phases. Mitotic activity.
		Mitotic activity regulation. Theoretical and practical
		mitosis study significance. Amitosis. Endomytosis. Stages
		of the cell metabolism.

	Topic 2. MOLECULAR	Information flow organization in cell The genetic			
	BASIS OF HEREDITY	processes and nucleic acids studying history. Nucleic acids			
		biological role. DNA, structure features and function. The			
		reparation process. The biological code: its essence and			
		main peculiarities. The replication process stages. The			
		replicon as the replication unit. The RNA features in			
		comparison with DNA. The RNA main kinds and their			
		characteristics.			
		The genetic apparatus of the eukaryotes. The study of			
		morphology and molecular organization of chromosomes.			
	Topic 3. REPRODUCTION	Reproduction. The conjugation as the genetic information			
	<u> </u>	transmission way and as the sex process.			
		Ontogenesis: stages, regularities of the embryonic period.			
		Acquaintance with the periodization of ontogenesis. The			
		study of the stages of embryonic development, the			
		peculiarities of their flow of different organisms. The study			
		of morphological the morula stage, blastula, gastrula,			
		organo - and histo Genesis of amphibians in microslides.			
		The study of the morphology of improvised bodies in			
		vertebrates and human microslides.			
	Topic 4. GENETICS	Study the forms of interaction of allelic genes. Situational			
		tasks on modeling laws, Mendel and interaction of allelic			
		genes. incomplete dominance The inheritance of ABO			
		group. Pleyothropy.			
		Interaction of non-allelic genes. Study the forms of non-			
		allelic genes interaction. Complementary, epistasis,			
		polymery. Situational tasks on modeling of monogenic and			
		polygenic traits and non-allelic genes interaction			
		Linked inheritance. Determination of the distance between			
		genes and preparation of chromosomal genetic maps using			
		crossover. A study of patterns of inheritance sex-linked			
	Tonio 5 WADIADII ITW	traits.			
	Topic 5. VARIABILITY	Variability, its forms and expression on organismic level: genotypic and phenotypic variability. Phenotypic			
		variability. Norm of reaction. Importance of environment			
		for expression and penetration of genes. Phenocopy.			
		Combinative variability, its importance in maintenance of			
		genotypic variety of individuals in populations. Definition			
		and classification of mutations. Gene mutations. Types of			
		chromosomal and genome mutations. Chromosomal			
		syndromes.			
	Topic 6. HUMAN	Study of human heredity. Man as a subject of genetics.			
	GENETICS	Acquaintance with the basic methods of human genetics,			
		their stages and purpose. Bases of medical genetics.			
		Methods of the human genetics. Genealogic, study of twin,			
		cytogenetics, hybridizations of somatic cells, biochemical,			
		immunological, dermatoglyphics, population-statistical			
		methods . Clinic-genealogical analysis. The calculation of			
		the degree of genetic risk. Assessment of the relative			
		importance of the environment and genetic factors.			
		Situational tasks, medico-genetic consulting legends.			
II.	MEDICAL				

DAD A GUIDO CONT	T	
PARASITOLOGY		
Topic 1. MEDICAL	Parasitic Protozoa. Class Animal Parasites. Acquaintance	
PROTOZOOLOGY	with the peculiarities of the structure, activity, systematics	
	of Protozoa. Subkingdom Protozoa. Type	
	Sarcomastigophora. Class Zoomastigophorea. Study of the	
	peculiarities of the structure and life cycles of	
	trypanosome, leyshmany, Giardia, Trichomonas.	
Topic 2. MEDICAL	Medical helminthology. Phylum Plathelmintes. Class	
HELMINTOLOGY	Trematoda. Characteristic of class. Species Fasciola	
	hepatica, Opisthorhis felineus, Dicrocelium lanceatum.	
	Chinese liver Fluke (Clonorhis sinensis), Pulmonary	
	Elukes (Paragonimus ringeri), Schistosomes (Schistosoma	
	haematobium, Schistosoma mansoni, Schistosoma	
	japonicum). Morphology, life cycle, entry of infection,	
	pathogenic effect, laboratory diagnosis, preventive	
	measures. Phylum Plathelminthes. Class Cestoidea.	
	Description of class. Exciters of cestodosis: Pork	
	tapeworm (Taenia solium), Beef tapeworm (Taeniarhychu	
	saginatus), Dwarf tapeworm (Hymenolepis nana).	
	Morphology, cycle of development, ways of infection,	
	pathogenic influencing, methods of laboratory diagnostics	
	and preventive measures. Phylum Plathelminthes. Class	
	Cestoidea. Broad tapeworm or Fish tapeworm	
	(Diphyllobothrium latum). Alveococcosis (Alveococcus	
	multilocularis), Hydatidosis (Echinococcus granulosus),	
	Morphology, cycle of development, ways of infection,	
	pathogenic influencing, methods of laboratory diagnostics.	
	Phylum Nemathelminthes. Class Nematoda. Geohelminths. Biohelmints. Causative of nematodosis: Ascariasis	
	(Ascaris lumbricoides), trichocephaliasis (Trichocephalus	
	trichiurus), Ancylostomiasis (Ancylostoma duodenale),	
	Necatoryasis (Necator americanus). Morphology, cycle	
	cycle, ways of infection, pathogenic, laboratory	
	diagnostics. Methods of laboratory diagnostics of Helminths	
Tonio 2 MEDICAI		
Topic 3. MEDICAL	Medical arachnoentomology. Phylum Arthropoda. Class	
ARACHNOENTOMOLOGY	Crustacea. Class Arachnoidea. Description, classification,	
	medical value. Ticks are vector of illnesses, carry and	
	natural reservoirs of diseases. Itch mite (Sarcoptes of	
	scabiei), Demodex folliculorum. Ixodidae: taiga tick	
	(Ixodes persulcatus), dog tick (Ixodes ricinus). Argasidae: Ornithodorus of papillipes. Morphological features, cycles	
	1	
	of development, methods of control against ticks that	
	prophylaxis of bites. Ticks which have transmission	
	importance of illnesses. Ticks are inhabitants of habitation	
	of people and their medical value.	
	Class Insecta. Order lice (Anoplura). Species: Head louse	
	(Pediculus capitis), Body louse (P. vestimenti; P.corporus),	
	Pubic louse (Phthirus pubis). Order fleas (Aphaniptera).	
	Species: Human flea (Pulex irritans), Rat flea (Xenopsylla	
	cheopis). Order Bugs (Heteroptera). Species: Cimex	
	lectularius, Triatoma infestans. Order Blattoidea. Species:	

	Blatta orientalis, Blattella germanica . Order Diptera.		
	Mosquito: tribes Culex, Anopheles, Aedes. Fly: Wohlfartia		
	fly (Wohlfahrtia magmfican). Mosquitos: Genus		
	Phlebotomus.		
Topic 4. Evolution and Evolution The synthetic theory of evolution. A gend			
human ecology	of species. Ideal and real populations. The theory of		
	evolution. Biological species, its criteria. Characteristics		
of a population (morphological, ecological, gene			
	Elementary evolutionary factors. Interaction and their role		
	in occurrence and fastening of changes of genetic structure		
	of populations. Drift of genes. Hardy - Weinberg law. Use		
	of the law of Hardy - Weinberg for definition of genetic		
	structure of real populations and populations of people.		
	Human ecology. Adaptation of an organism to a living		
	environment and an origin of biological expediency.		

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total
									hours
1	CELL BIOLOGY	2		4				4	10
2	MOLECULAR BASIS OF HEREDITY	4		8				15	27
3	REPRODUCTION	4	2	2				4	12
4	GENETICS	2		8				15	25
5	VARIABILITY	4		4				15	23
6	HUMAN GENETICS	2	2	4				15	23
7	MEDICAL	4		6				4	14
	PROTOZOOLOGY								
8	MEDICAL	4		10		2		10	26
	HELMINTOLOGY								
9	MEDICAL	2		8				4	14
	ARACHNOENTOMOLOGY								
10	Evolution and human	2						4	6
	ecology								

6. List of teaching materials for the course unsupervised work of students (including the use of e-learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control	
1	CELL BIOLOGY	working with scientific and educational literature	Abstract in the work-book	
2	MOLECULAR BASIS OF HEREDITY	solving the genetic tasks and genetic problems	Abstract in the work-book	
3	REPRODUCTION	working with scientific and educational literature	Abstract in the work-book	
4	GENETICS	solving the genetic tasks and genetic problems	Abstract in the work-book	

5	VARIABILITY	solving the genetic tasks and genetic problems	Abstract in the work-book	
6	HUMAN GENETICS	solving the genetic tasks and genetic problems	Abstract in the work-book	
7	MEDICAL PROTOZOOLOGY	working with scientific and educational literature	Abstract in the work-book	
8	MEDICAL HELMINTOLOGY	working with scientific and educational literature	Abstract in the work-book	
9	MEDICAL ARACHNOENTOMOLOGY	working with scientific and educational literature	Abstract in the work-book	

7. Forms of control

- 7.1. Current forms of control
- oral (a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, lecture notes, solving of practical tasks).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment - examination

Stages of the interim assessment

Stages of examination

- 1. Stage <u>theoretical part</u> (The stage is conducted in writing form. Exam paper includes two questions.
 - 2. Stage <u>practical part (Solve the 1 genetic task)</u>

Questions for examination and list of genetic tasks are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

- 1. **Биология** [Электронный ресурс] : учебник: в 2т./ ред. В. Н. Ярыгин **Т.1**. -Москва: ГЭОТАР-Медиа, 2018. -728 с.: ил. URL: http://www.studentlibrary.ru/book/ISBN9785970445686.html.
- 2. **Биология** [Электронный ресурс] : учебник: в 2т./ ред. В. Н. Ярыгин **Т.2**. -Москва: ГЭОТАР-Медиа, 2018. -560 с.: ил. URL: http://www.studentlibrary.ru/book/ISBN9785970435656.html.

8.2. Supplementary literature

- **1. Faller A.** The Human Body: An Introduction to Structure and Function. [Электронный pecypc]/ A. Faller, M. Schunke. -1st ed.: Thieme, 2004 URL: https://medone-education.thieme.com/ebooks/2151115?fromSearch=true#/ebook_2151115_SL82017017.
- **2. Биология. Руководство к** лабораторным занятиям [Электронный ресурс] : учебнометодическое пособие/ ред. Н. В. Чебышев. -2-е изд., испр. и доп.. -Москва: ГЭОТАР-Медиа, 2015. -384 с.: ил. URL: http://www.studmedlib.ru/book/ISBN9785970434116.html.
- **3. Биология: руководство к** лабораторным занятиям [Электронный ресурс] : учебное пособие/ ред. О. Б. Гигани. -Москва: ГЭОТАР-Медиа, 2016. -272 с.: ил. URL: http://www.studmedlib.ru/book/ISBN9785970421383.html.

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

№	Resources	URL address	Resource Annotation

1	Medicalplanet	http://medicalplanet	contain scientific and
		.su/genetica	educational information on
			various sections of genetics
2	Biology and medicine	http://medbiol.ru	contain scientific and
			educational information on
			various sections of biology

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

No	Platform of EL DLT	Name of the e-course,	E-course implementation
		authors, URL address	model
	Moodle	https://edu.nsmu.ru/	mixed
		course/view.php?id	
		<u>=595</u>	

8.5. The list of the software and information & reference systems

When implementing the educational process, students and teaching staff use the following software: operating system-MSWindowsVistaStarter,MSWindowsProf 7 Upgr; office package-MSOffice 2007; other software-7-zip, AdobeReader,Kaspersky Sendpointsecurity

9. Material and technical facilities necessary for the educational process*

$N_{\underline{0}}$	Name of the study room	Location of the study	List of the main equipment of
		room	the study room
	Room №1213, 1215,	Troicky pr., 51	Student microscopes systems
	1242		"Biolam", HSP -102V
			Overhead projector to
			show slides
			TV for viewing the video

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION **Federal State Budgetary Educational Institution of Higher Education**

"NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline **Human anatomy**

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1,2 / 1,2,3

Form of the interim assessment **Examination**

Department of Human anatomy and operative surgery

Discipline workload 504 (academic hours) / 14 (credits)

Approved at the department meeting

Minutes No.

June 15th 2021

Head of the department

Sukhanov S. G.

Author and compiler:

Ph. D., associate Professor M. N. Alikberova

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

Following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine». The discipline "Anatomy" refers to the cycle of mathematical and natural sciences.

Basic knowledge necessary for studying the discipline form:

- in the cycle of humanitarian and socio-economic disciplines, including: philosophy, bioethics, psychology and pedagogy, history of medicine, latin language;
- in the cycle of mathematical and natural-science disciplines, including: physics, mathematics; chemistry; biology; histology, embryology, cytology; normal physiology.

It is precede studying next disciplines: normal physiology; topographical anatomy and operative surgery; pathological anatomy, clinical pathological anatomy, clinical subjects.

2. Goal and tasks of the mastering of the discipline

Goal - formation of students' knowledge of human anatomy and topographic anatomy of how the whole organism and individual organs and systems, based on the latest achievements of macro and microscopy; Ability to use the knowledge gained in the subsequent study of other basic and clinical disciplines, as well as in the future professional activity of a doctor.

Tasks:

- studies structure, functions and the topography of the human body, anatomical and topographical relationships of their X-ray image, the individual features of the structure and age of the body, including prenatal development (organogenesis), variants of variability individual organs and defects of development;
- formation of students' knowledge of the interdependence and unity of the structure and function of individual organs and body as a whole, the relationship of the organism to changing environmental conditions, the impact of environmental and genetic factors, the nature of work, occupation, physical culture and social conditions for the development and the structure of the body;
- formation of students' comprehensive approach to the study of anatomy and topography of the organs and systems; synthetic understanding of the structure of the human body as a whole as the relationship of body parts; ideas about the importance of fundamental research anatomical science to applied and theoretical medicine;
- formation of students' ability to navigate the complex structure of the human body, accurately and precisely identify and define the location and the projection of bodies and their parts on the surface of the body, ie, possession "anatomical material" for understanding the pathology, diagnosis and treatment;
- education of students, guided by traditional principles of humanism and mercy, respectful and careful attitude to the studied object the human body organs, the carcase; instilling high moral standards of behavior in the sectional rooms of the medical school.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement
ОПК-№5 Способен оценивать	ИД-1. Знает анатомию, гистологию,
морфофункциональные,	топографическую анатомию, физиологию,
физиологические состояния и	патологическую анатомию и физиологию
патологические процессы в организме	органов и систем человека
человека для решения	ИД-2. Умеет определять и оценивать
профессиональных задач	морфофункциональные, физиологические
	состояния и патологические процессы в
	организме человека

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is $\underline{14}$ credits.

Type of the academic work	Total hours		Term	
		1	2	3
Students'contact work with the teacher (total)	236,3	44	96	96,3
Including:				
Lectures (L)	78	8	36	34
Seminars (Sem.)				
Practical classes (PC)	156	36	60	60
Clinical practicals (CP)				
Laboratory-based practicals (LBP)				
Simulation-based practicals (SBP)				
Preparation for the examination (PE)				0,3
Preparation for the credit (PC)				
Exam consultations (EC)				2
Coursework (CW)				
Unsupervised work (UW) (total)	234	64	156	14
Examination control (EC)	36			33,7
Total discipline workload	504/14	108	252	144

5. Course content:

5.1. Contents of the sections of the course

No	Name of the course section	Content of the section		
1	2	3		
1.	Introduction. Musculoskeletal system.	Content of the object. The history of anatomy. History of domestic anatomy. Human development. The general structure of the human body. The concept of organs and organ systems. The position of man in nature. Anatomical Terminology. Osteology: the bones of the axial skeleton, skeleton limbs, skull. Arthrology: Connect the trunk bones and skull, limbs connection. Myology: muscles and fascia of the trunk, chest, abdomen, extremities, head and neck.		
2.	Splanhnologiya. Organs of the immune system. Endocrine glands.	Digestive system. Respiratory system. Urinary system. Reproductive system. The general laws of the structure. Primary and secondary immune organs. The lymph nodes. The pituitary, pineal, thyroid, parathyroid, adrenal gland, endocrine pancreas, and gonads.		
3.	Cardiovascular system	Heart. The arteries of the pulmonary circulation. The arteries of the systemic circulation: arterial trunk and extremities. Vens. Lymphatic vessels, trunks and ducts. Way lymph drainage.		
4.	Neurology	The general structure. Central nervous system. Spinal cord. The brain: telencephalon, cerebral hemisphere. The brain stem. Diencephalon. Midbrain. Isthmus hindbrain. The hindbrain. The bridge, cerebellum, medulla oblongata, rhomboid fossa. Pathways of the central nervous system. Skins spinal cord and brain. The peripheral nervous system. Spinal nerves. Brachial, lumbar and sacral plexus. The autonomic nervous system: sympathetic and parasympathetic parts.		
5.	Esthesiology	The eye, the ear, the organs of smell and taste. Skin.		

5.2. Sections and types of studies

No	Name of the course section	L	P	S	LBP	СР	UW	Total hours
1	2	3	4	5	6	7	8	9
1.	Introduction. Musculoskeletal system.	8	36				64	78
2.	Splanhnology. Organs of the immune system. Endocrine glands.	18	27				65	110
3.	Cardiovascular system	10	18				55	83
4.	Neurology	38	56				40	134
5.	Esthesiology	2	6				10	18

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No	Name of the course section	Types of unsupervised work	Forms of control
	Introduction. Musculoskeletal	The study of the bones, joints and	Oral questioning,
	system.	muscles;Training programs in electronic	testing
		form	
	Splanhnologiya. Organs of the	Study preparates of internal organs;	Oral questioning,
	immune system. Endocrine	Preparation of presentations on the topics in	testing
	glands.	this section;	
		Working with textbooks;	
		Training programs in electronic form	
	Cardiovascular system	The study of heart and vessels on the	Oral questioning,
		preparates;	testing
		Decision of situational problems self	-
		Training schemes and drawings on the	
		themes;	
		Training programs in electronic form	
	Neurology	The study the preparates;	Oral questioning,
		Training schemes and drawings on the	testing
		themes;	
		Filling the training tables;	
		Decision of situational problems self;	
		Training programs in electronic form	
		Training schemes and drawings on the	
		themes; Training programs in electronic	
		form	
	Esthesiology	Working with textbooks; Filling the training	Oral questioning,
		tables	testing

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment (pass/fail test, examination, term paper) Stages of the interim assessment

Stages of examination (pass/fail test)

- 1. Stage <u>testing</u> (name of the stage)
- 2. Stage <u>Name and show</u> (name of the stage)
- 3. Stage <u>Interview stage examination paper</u> (name of the stage)

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

1.	Chaurasia's B. D. Human Anatomy. Regional and Applied. Dissection and Clinical. Volume 2: tutorial/ B. D. Chaurasia's6 th edNew Delhi, 2013 463 p.
2.	Abrahams P.H. McMinn's Colour Atlas of Human Anatomy/ P.H. Abrahams, S.C. Marks Jr, R.T. Hutchings6th edEdinburgh; London; New York: MOSBY, 2003378 p.: il
3.	Prives M Human anatomy/ M. Prives, N. Lysenkov , V. BushkovichPrives M. Vol. II : The science of the vessels. The science of the nervous system. The science of the sensory organs./ пер. A. AksenovMoscow: Mir Publishers, 2004439,[1] p.: il.
4.	Prives M Human anatomy/ M. Prives, N. Lysenkov , V. Bushkovich Vol. 1 : The weight-bearing and locomotor system. The science of the viscera. The science of the organs of internal secretion2006608 p.
5.	Prives M Anatomy/ M. Prives, N. Lysenkov, V. Bushkovich Vol. 2: The science of the vessels. The science of the nervous system. The science of the sensory organs1985439 p.: il
6.	Prives M Anatomy/ M. Prives, N. Lysenkov, V. Bushkovich Vol. 1: The weight-bearing and locomotive system. The science of the viscera. The science of the organs of internal secretion1985608 p.: il
7.	Prives. M Human anatomy/ M. Prives, N. Lysenkov, V. BushkovichPrives M. Vol. I: The weight-bearing and locomotor system. The science of the viscera. The science of the organs of internal secretion./ πep. A. AksenovMoscow: Mir Publishers, 2004608 p.: il.
8.	Prives M. G. Human Anatomy/ M.G Priwes, N. K. Lysenkov, V. I. Bushkovich Vol. 2: The Science of the Vessels. The Science of the nervous Systems. The Science of the Sensory Organs2006439 p: il.
9.	Snell R. S. Clinical anatomy by regions [Text]: tutorial/ R. S. Snell9th edБ.м., 2012 754 pISBN 978-81-8473-658-8ISBN 978-1-60913-446-4, Б.ц

8.2. Supplementary literature

1.	Agur AMR, Dalley AF. Grant's Atlas of Anatomy, 12th ed. Baltimore: Lippincott Williams
	& Wilkins, 2009.

2.	Dean DX, Herbener TE. Cross-Sectional Human Anatomy. Baltimore: Lippincott Williams		
	& Wilkins, 2002.		
3.	Essential Clinical anatomy. Fourth edition/Keith L. Moore PhD, FIAC, FRSM, FAAA; Ana		
	M.R. Agur BSc(OT), MSc, PhD; Arthur F. Dalley I I PhD. 2011		
4.	Federative Committee on Anatomical Terminology, 1998.		
5.	Hardy SGP, Nafrel JP. Viscerosensory pathways. In Haines DE (ed), Fundamental		
	Neuroscience, 2nd ed. New York:Churchill Livingstone, 2002.		
6.	Haines DE. Neuroanatomy: An Atlas of Structures, Sections, and Systems, 7th ed.		
	Baltimore: Lippincott Williams &Wilkins, 2007.		
7.	Hutchins JB, Naftel JP, Ard MD. The cell biology of neurons and glia. In Haines DE (ed),		
	Fundamental Neuroscience,2nd ed. New York: Churchill Livingstone, 2002.		
8.	Gray's Anatom, 40th Edition. The Anatomical Basis of Clinical Practice. By Susar		
	Standring, PhD, DSc, FKC/© 2008, Elsevier Limited. All rights reserved. Fortieth edition		
	published 2008		
9.	Keegan JJ, Garrett FD. The segmental distribution of the cutaneous nerves in the limbs of		
	man. Anat Rec 102:409,1948.		
10.	Lachman N, Acland RD, Rosse C. Anatomical evidence for the absence of a		
	morphologically distinct cranial root of theaccessory nerve in man. Clin Anat 15:4, 2002.		

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

_	mustering of the course (module)
1.	http://www.medicalstudent.com/
2.	http://www.anatomyatlases.org/atlasofanatomy/index.shtml
3.	http://www.anatomyatlases.org/HumanAnatomy/CrossSectionAtlas.shtml
4.	http://www.anatomyatlases.org/AnatomicVariants/AnatomyHP.shtml
5.	http://www.bartleby.com/107/
6.	http://www.stritch.luc.edu/lumen/course_detail.cfm?crs_number=3074&checkref=
	639D79CC857A6C76C2723B7E014FCCB0
7.	http://reference.medscape.com/guide/anatomy
8.	http://ect.downstate.edu/courseware/haonline/index.htm
9.	http://cosmos.phy.tufts.edu/~rwillson/dentgross/headneck/index2.htm
10.	http://anatomy.med.umich.edu/
11.	http://library.med.utah.edu/WebPath/HISTHTML/NEURANAT/CNS016A.html
12.	http://depts.washington.edu/msatlas/
13.	https://zygotebody.com/
14.	http://www.youtube.com/watch?v=YZcBBeIhNvI
15.	http://www.gfxtr.net/435/114749-the-best-dissection-for-medical-students.html

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

№	Platform of EL DLT	Name of the e-course, authors, URL address	E-course implementation model
1	MOODLE	1,2 course English medium Anatomy Human Anatomy	1,2_1554_1cEmAHA_omy
2	ZOOM		

8.5. The list of the software and information & reference systems

- software: certified, license programs of general and educational assignment, information & reference systems – Garant, Consultant and etc.

- 1. Multimedia lectures throughout the course of discipline
- 2. Films
- 3. Internet resources

$9. \ Material \ and \ technical \ facilities \ necessary \ for \ the \ educational \ process^*$

No॒	Name of the study room	Location of the study room	List of the main equipment of the study room
110	Classroom 1	1st floor	Tables; chairs; sectional table; sink for washing hands; dummies; tablets; tables.
120	Classroom 2	1st floor	Tables; chairs; sectional table; sink for washing hands; dummies; tablets; tables.
108	Classroom 3	1st floor	Tables; chairs; sectional table; sink for washing hands; dummies; tablets; tables.
129	Classroom 4	1st floor	Tables; chairs; sectional table; sink for washing hands; dummies; tablets; tables; laptop; TV for demonstration presentations, educational videos.
149,173	Classroom 7	1st floor	Tables; chairs; sectional table; sink for washing hands; dummies; tablets; tables; laptop; TV for demonstration presentations, educational videos.
227	Classroom 6	2nd floor	Tables; chairs; sectional table; sink for washing hands; dummies; tablets; tables.
258	computer class	2nd floor	Tables; chairs; computers; blackboard;
202	anatomical museum + classroom	2nd floor	Biologics; tables; chairs; dummies; tablets; tables; laptop; TV for demonstration presentations, educational videos.
232A	lecture hall	2nd floor	Tables; chairs; multimedia system (monoblock, projector) for demonstration presentations, educational videos.

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline Histology, Embryology, Cytology

Field of training **31.05.01 General Medicine**

Year (s) of study / term (s) 1,2 / 2,3

Form of the interim assessment **Examination**

Department of Histology, Cytology and Embryology

Discipline workload 252 (academic hours) / 7 (credits)

Approved at the department meeting

Minutes No.

June 15th 2021

Head of the department

Professor A.L. Zashikhin

Author and compiler:

Bashilova E.N., k.m.s., docent, Agaphonov Y.V.,d.m.s., professor, Dolgikh O.V., k.b.s., docent

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects)

The discipline is related to prior subjects of the curriculum: biology, anatomy

The discipline is related to subsequent subjects of the curriculum: normal physiology, microbiology, immunology, pathoanatomy, physiopathology.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research

2.Goal and tasks of the mastering of the course

To provide with the knowledge on cytology, embryology, general and private histology and abilities of their practical use, necessary for the successful mastering of contiguous biological and clinical disciplines, and similarly in-process doctor.

The tasks of study of discipline is mastering of conformities to law of development, structure, histophysiology tissues and organs and, through cognition of intercommunication of structure and function, understanding of normal vital functions of organism of man. Implementation of these tasks in the volume indicated below provides the achievement of aims of educating on a department.

3. List of planned learning outcomes of the course (module) in connection to the planned outcomesat completion of the educational program

Codes of the formed competences	Indicator of the competence achievement
ОПК 5. Способен оценивать морфофункциональные, физиологические состояния и патологические процессы в организме человека для решения профессиональных задач	ИД-1. Знает анатомию, гистологию, топографическую анатомию, физиологию, патологическую анатомию и физиологию органов и систем человека

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the course and types of academic classes:

Total workload of the course is 7 credits.

Type of the academic work	Total hours	Te	rm
		2	3
Students'contact work with the teacher (total)	110,3	54	56,3
Including:			
Lectures (L)	36	18	18
Seminars (Sem.)			
Practical classes (PC)	36	18	18
Clinical practicals (CP)			

Laboratory-based practicals (LBP)	36	18	18
Simulation-based practicals (SBP)			
Preparation for the examination (PE)	0,3		0,3
Preparation for the credit (PC)			
Exam consultations (EC)	2		2
Coursework (CW)			
Unsupervised work (UW) (total)	108	90	18
Examination control (EC)	33,7		33,7
Total discipline workload	252/7	144	108

5. Course content:

5.1. Contents of the sections of the course

Course section 1. Cytology

Theme 1. Introduction. Histological technique.

Object and tasks of course of histology with bases of cytology and embryology. A place of these disciplines is in the system of medical education. Connection with other clinical disciplines. Their role is in practical activity of doctor. History of development of histology. Basic concepts and terms. Types of histological structures.

Theme 2. Cytology.

Substantive provisions of cellular theory. Concept about an elementary cytoplasmic membrane. Cytoplasm and organoids. Membrane and unmembrane organoids. Their structural organization and functional value. Including, classification, their role in the vital functions of cage.

Nucleus. Cellular cycle. Methods of reproduction of cells.

Structure and function of kernel of cage. Structure of karyothesis, intercommunication of kernel and cytoplasm. Organization and types of chromoplasm, sexual chromoplasm, structure of karyonucleus. Mitotically cycle, his phases and their value. Types of fission. Mitosis, amitosis, meiosis. Polyploidy and aneuploidy, their value.

Course section 2. Embryology

Theme 3. Embryology of higher vertebral and human

Object and tasks of embryology: comparative embryology as basis for understanding of embryonic development of man. Gametes their difference from somatic cages. Basic stages of embryonic development of animal and man. Determination and embryonization. Description of properties of embryonic sheets. Methods of bookmark and embryonization of mesoblast.

Embryology of human. Extraembryonic organs.

Stages of embryogenesis. Forming, sources of development and functional value of extraembryonic organs. Formation of chorion and placenta. Types of

placentas. Immunological compatibility of fruit and mother. Modern technologies of treatment of sterility (video film).

Course section 3. General histology

Theme 4. General concepts about tissue. Epitheliums.

Fabric as one of levels of organization of living substance. Updating of fabrics and by a tissue cambium. Typification of fabrics on organization of their cambium and reparative regeneration of fabrics. Classification of fabrics and basic groups of tissue.

General description of ephithelial tissue. Morphological, functional and genetic description of epitheliums. Ferrous epithelium as major fabric of gland. Classification of glands. Exo- and hemadens. Types of eccrine glands.

Theme 5. Blood.

Blood, her functions. Plasma of blood. Hemocytes, their classification, morphology and functional value. Concept about hemogram and leucocyte formula, their value for a clinic. Age-related changes of hemogram . Lymph, her composition and value.

Muscular-trophic tissue. General description of fabrics of internal environment, their classification and principles of organization.

Theme 6. Fibred connecting tissue.

Actually connecting tissue (fibred). General description and value of intercellular substance. Cages of loose connecting tissue. Macrophages (histiocytes), their role in the protective reactions of organism, structure and origin. Concept about the macrophages system. Dense connecting tissue. Connecting tissue with the special properties.

Theme 7. Cartilaginous tissue.

General morphological and histochemistry description. Cartilaginous cages (chondrocytes). Intercellular substance. Types of cartilaginous tissue. Height of cartilage. Regeneration of cartilaginous tissue.

Theme 8. Bone tissue.

General description, classification. Cages of bone tissue. Intercellular substance of bone tissue. Regeneration of bone tissue. Bone as organ. Microscopic structure of tubular bone and flat bones. Direct and indirect osteogenesis. Alteration of bone during the height of organism. Factors influencing on the height of bones.

Theme 9. Muscular tissue.

Muscular tissue of somatic type, histogenesis. Muscular fibre as morphon of tissue. Muscle as organ, her structure, innervation and vascularization. Regeneration of muscles. Striated muscular tissue of coelomic type (cardiac

muscular fabric). Atypical cardiac muscular tissue her functional features. Possibilities of regeneration of myocardium. Smooth muscular tissue of mesenchymal origin. Histogenesis, smooth musculature. Cellular different organization of smooth muscular tissue. Structure of population of smooth myocytes of certain of smooth musculature. Types of leyomyocytes and features of their organization. Organization of retractive vehicle and mechanism of reduction of smooth myocytes. Regeneration of smooth musculature.

Theme 10. Nervous tissue.

Histogenesis of nervous tissue and their classification. Neurons, their morphological and functional classification. Classification, functional value and structure. Microglia, her genetic belonging to the macrophage system and properties.

Nervous fibres, nervous completions, peripheral nerve.

Classification, structure and functions, regeneration of nervous fibres.

Nervous completions. Classification of nervous completions. Synapses, and their role in the transmission of excitation on the chain of neurons. Reflex arcs - functional units of the nervous system, them composition.

Theme 11. Diagnosticum 1

Course section 4. Special histology

Theme 12. Organs of the nervous system

Spinal cord. Grey and white substance. Off-line nervous system. General morphological and functional description. Types of reflex arcs. Features of structure of reflex arcs of the off-line nervous system.

Cortex. Cerebellum Cytoarchitectonics., neuron composition and layers of bark of large hemispheres, interneuronal connection. Idea about module organization of bark. Structure and neuron composition of bark of cerebellum.

Theme 13. Sense-organs. Organs of sight, sense of smell.

Concept about analyzers. Classification of sense-organs on the structure of receptor vehicle. Organ of sight. Development, structure. Neuronal composition of retina. Auxiliary parts of eye: eyelids, tear vehicle, muscles of eyeball. Olfactory. Olfactory epithelium. Olfactory neurosensory cages. Histophysiology of sense of smell.

Ears, equilibrium and taste.

General description. Internal ear: bone and membranous labyrinths. Vestibular part of membranous labyrinth. Receptor departments of spherical sacs and semicircular channels, their cellular composition. Histophysiology of perception of sounds. Organ of taste. General functional description. Histophysiology of organ of taste.

Theme 14. Cardiovascular system.

Ontogenesis of the cardiovascular system. Classification of blood and lymphatic vessels. Arteries and veins. Histological elements of wall of vessels and their value. Connection of microscopic structure with the terms of hemodynamics in him. Vessels of microvasculature. Structure, hemodynamic features, value in metabolism and depositing of blood. Heart. General functional description. Ultrastructural and cytochemical description of cellular elements of the conducting system. A value of PSNS in work of heart.

Theme 15. Hematogenesis.

Development of blood, as tissues. Post-embryonic hematopoiesis. Theories of hematogenesis. AA Maksimov and his role is in creation of monophyletic. Concept and colony units. Barrel cages of blood and their property. Morphologically identified stages of development of cages of blood. Structural description of cages in differons red corpuscles, granulocytes, monocytes. Adjusting of hematopoiesis. Structure and functions of marrow. System of immune defense.

Basic concepts: immunity, antigen, antibody. Lymphopoiesis. Types lymphocytes and their co-operation at development of immunoreaction. Cellular and humoral type of immunity. Central and peripheral organs of the immune system.

Theme 16. Endocrine system.

General description of the endocrine system, feature of гистофизиологии of hemadens. Classification of ductless glands. Gipotalyamo - pituitary system. Epiphysis. Structure and supposed functions of epiphysis. Peripheral glands. Physiological and reparative regeneration of fabrics of ductless glands. Change of glands in child's, elderly and senile age.

Theme 17. Digestive system. Oral cavity.

General principle of organization of structure of wall of gastrointestinal tract. Embryonic development of the digestive system. Structure of mucous membrane of oral cavity. Structure of lip, cheek, language. Teeth. Enamel, dentine, cement: structure, chemical composition. Endodontium. Periodont. Odontogeny. Amygdales, salivary glands.

Salivary glands, classification. Large salivary glands. Embryonic development. Structure and histophysiology. Exo- and endocrine functions. Features of structure of amygdales. Their value.

Theme 18. Gullet, stomach, bowels.

Structure and by a tissue composition of organs. Cytophysiology of exo- and hemadens. Structure of wall and by her tissue composition in the different departments of bowels. The system is a crypt - hair, as functional unit. Types of cages of epithelium of hair and crypt, their structure and cytophysiology. Histophysiology of the wall digestion and suction. Vermicular appendix.

Features are his structure and value. Endocrine vehicle of digestive channel, him descriptions, concept about APYD to the system. Lymphoid vehicle of digestive tract. Functional description. Concept about local immunity.

Theme 19. Liver, pancreas.

General description. Features of blood supply. Structure of lobule as structural-functional unit of liver. Regeneration. Features of structure of liver new-born. Description of liver of children of early age and at aging of organism. General description of pancreas. Structure eccrine and endocrine departments.

Theme 20. Diagnosticum 1

Theme 21. Breathing organs. Skin and it's derivatives.

Description of the respiratory system. Auriferous ways and respiratory department. Features of structure of wall of auriferous ways: nasal cavity, larynx, trachea and main bronchial tubes. By a tissue composition and description of their shells. Cellular composition of epithelium of mucous membrane. Acini as functional unit of lung. Structural components of acini. Air-blood barrier and his value in the interchange of gases. Development of lung is in a postnatal period. Age-related changes of lung in the process of aging.

Description and by a tissue composition of skin. Epidermis. Concept about composition of epidermis. Local system of immunological supervision of epidermis. Derma. Papillary and reticulated layers, by their tissue composition. Glands of skin, hair, nails.

Theme 22. Urinary system

The morfo - functional characteristic of system of uric bodies. Nephron - morfo - functional as kidney unit, its structure. Concept and a structure of counterflow system of a kidney. Morfo - functional bases of regulation of process uropoiesis. The endokrinnyj device of a kidney: juxtaglomerular a complex and interstitial cages. Their structure and function.

Theme 23. Man's sexual system.

The morfo-functional characteristic of system of genitals. Man's genitals. The general morfo - functional the characteristic testes. Convoluted tubules seed, a wall structure. Spermatogenesis. Endocrine function testicle. Regulation functions testicle. Features testicle the newborn, till the period of puberty in a sexual maturity and at organism ageing. Possibility of damaging action on testicle phisico - chemical factors - radiation, alcohol, temperature, etc. in connection with them morfo - functional features. Their structure and functions.

Theme 24. Female sexual system.

Female genitals. Histogeny. The general morfo - functional the characteristic ovary. Oogenesis .Differences ooogenesis from

spermatogenesis. Endokrinnaja function ovary: female sexual hormones and cellular elements developing them. Features ovary newborns before puberty, in a sexual maturity and at ageing. A structure and functions. A uterus. The general morfo - the functional characteristic. A menstrual cycle and its phases. Features of a structure endometrial in various phases of a cycle. Communication of cyclic changes endometrial and ovary. Uterus reorganization at pregnancy and after the delivery. Features of a uterus of newborns, girls before puberty, in puberty, at adult women and at ageing. Chest (dairy) gland. The general morfo - the functional characteristic. Functional morphology lactating and non-lactating (nonfunctioning and after a lactation) a mammary gland. nejro - endocrine regulation of functions of mammary glands in a course ovarialno menstrual a cycle and at pregnancy.

5.2. Sections and types of studies

No.	Name of the course section	L	LPB	SRS	Total hours
1	Cytology	2	9	10	21
2	Embryology	2		2	2
3	General histology	10	21	74	105
4	Private histology	22	42	22	86

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No	Name of the course section Types of the unsupervised work		Forms of control		
1.	I.Cytology Introduction. Histological technique. Microscope	To fill a table will "Define essence of basic concepts". To study the table of basic histological dyes and reactions, chart of colouring of microsection. To study the charts of structure of different types of microscopes, motion of rays, rules of work with a microscope.	Discussion on a theory and to preparations, verification of albums,		
	General morphology of cells	To study diffraction pattern and charts of structure of cage, organoids, cellular membrane, types of transport. To fill a table the "Intercellular contacts, classification of organoids, including". To study and complement a table "Description of components of cytoskeleton". To study pictures and sign the elements of kernel, nuclear pore, levels of compaction DNP.	test tasks in Moodle tacts, classification ription of		
	Cellular cycle. Methods of reproduction of cell s	To study and complement a table "Description of cellular cycle", "Adjusting of cellular cycle", "types of cellular death".			
2.	II.Embryology Embryology of higher animals and man (1)	To study pictures to sign: the stages of embryonic development of man, chart of impregnation, structure of embryo in the different terms of embryogenesis. To study and sign the picture of embryonization of mesoblast. To fill a summary table "Embryogenesis of man".	Discussion on a theory and to preparations, verification of albums test tasks in Moodle		
	Embryology of higher animals and man (2)	To study diffraction pattern and charts of forming of placenta, formation of embryonic folds, embryonization of extraembryonic organs. To draw and sign the types of placentas. To fill a table the "Extraembryonic organs of man".			
3.	III.General histology General concepts about tissue. Epitheliums	To study pictures and sign the types of histological structures, basic determinations. To fill the table of "Kinds regenerations", "Classification of fabrics", "Morpho - functional signs and properties of epitheliums"	Discussion on a theory and to preparations, verification of albums,		
	Multi-layered epitheliums, glands	To fill the table of "Histogenetic classification of epitheliums", "Classification of glands". To study the pictures of types of secretion.	reports, decision of situational tasks, test tasks in Moodle		
	Mesenchyme, connecting tissues	To fill a table "Classification of connecting tissues", to study diffraction pattern and charts of structure of components of connecting tissue. To study and complement a	Discussion on a theory and to preparations,		

	Blood	table "Description of components of intercellular substance", "Description of basic cellular types of connecting tissue", "Formation of collagen fibres, "Neurohumors of obese cages". To fill a table "Comparative description of connecting tissues". To fill the table of " Morpho -functional signs and properties of fabrics of internal environment of organism". To study the chart of embryonization of mesenchyme and barrel cage of blood. To study and complement a table "Composition of plasma of blood". To study pictures and fill a table "Leucocytes". To study the chart of activating of neutrophil. To become acquainted with the table of "Disorder of phagocytic function of neutrophil".	verification of albums, reports, decision of situational tasks in Moodle Discussion on a theory and to preparations, verification of albums, reports, decision of situational tasks, test tasks in Moodle
	Cartilaginous tissues	To study and sign a picture "Structure of intercellular substance of hyaline cartilage". To fill a table "Classification of cartilaginous fabrics", "Height and regeneration of cartilages", "Effects of vitamins and hormones on a hyaline cartilage".	Discussion on a theory and to preparations, verification of albums
	Bone tissue. osteogenesis	To fill a table "Classification of bone fabrics", to study pictures and sign the elements of bone fabric, stage of osteogenesis. To study the charts of regeneration of bone fabric.	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
	Muscular tissues	To fill a table "Classification of muscular tissues". To study pictures and sign elements "Structure of striated muscular fibre", "Structure of myofibrils", "Phase of reduction of myofibrils", "Structure of muscle as an organ", "Phenotypes and elements of cardiomyocytes". To study charts and tables the "Albuminous structure of myofibrils", "Histogenesis and principles of reactivity of GMG of internal organs", "Phenotypes of smooth myocytes".	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
	Nervous tissue, neurons.	To study pictures and sign the elements of nervous tissue	Discussion on a theory and to preparations,
	Nervous fibres, nervous completions	To study pictures and sign elements of nervous fibre, realization of nervous impulse, regeneration of nervous fibre. To study a table "Classification of nervous fibres", "Classification of nervous completions", "Classification of neurotransmitters".	verification of albums, decision of situational tasks, test tasks in Moodle
4.	IV. Private histology Organs of NS (1) are the Spinal cord, spinal knot, peripheral nerve	To study diffraction pattern organs of HC, to study the charts of "Kinds reflex arcs"	Discussion on a theory and

Organs of NS are Cortex, cerebellum.	To study the chart of synaptic connections in the bark of cerebellum, changes in a nerve after his cut. To fill a table "Intercommunication and types of neurons of bark of cerebellum". To study and sign the charts of structure of the mixed and amyelenic nerve.	to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Sense-organs are Organs of sight, sense of smell Sense-organs are Ears,	To study charts transmissible and sweepable diffraction pattern on development and ultrastructural organization of sense-organs. To fill a table the "Functional vehicles of eye", "Organogeny of sight". To study charts transmissible and sweepable diffraction pattern on development and	Discussion on a theory and to preparations, verification of albums,
equilibrium, taste	ultrastructural organization of sense-organs 2 groups. To fill a table "Comparative description of sense-organs".	decision of situational tasks
Cardiovascular system	To fill a table "Tissue composition of organs of the cardiovascular system". To study charts, transmissible and sweepable diffraction pattern hearts and blood vessels.	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Myeloid hematogenesis. Red marrow	To diagrammatize process of development of red corpuscles, granulocytes. To study transmissible and sweepable diffraction pattern cages of red marrow.	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Lymphopoiesis. Organs of immune defence	To study charts, transmissible and sweepable diffraction pattern of post-embryonic hematopoiesis, thymus new-born, spleen. To study the types of immunoreactions. To fill a table "Tissue composition of organs of lymphopoiesis".	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Endocrine system	To study charts transmissible and sweepable diffraction pattern of endocrine cages of different organs. To study classification of organs of the endocrine system, adjusting mechanisms.	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Digestive system. Organs of oral cavity.	To study charts transmissible and sweepable diffraction pattern organs of oral cavity	Discussion on a theory and to preparations,
Salivary glands.	To study charts transmissible and sweepable diffraction pattern of salivary glands	verification of albums,

Amygdales		decision of situational tasks, test tasks in Moodle
Teeth, periodont. Development, changing of teeth	To study charts transmissible and sweepable diffraction pattern elements of tooth, study a tissue composition and age-related features of teeth.	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Gullet, stomach, bowels	To study charts transmissible and sweepable diffraction pattern organs of the digestive system, study cellular composition of glands of stomach, bowels. To fill the comparative table of structure of different departments of bowels	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Liver, pancreas	To study charts, transmissible and sweepable diffraction pattern acinar of pancreas, pancreatic small island, hepatocyte, their relationship with sinewave vessels. To study the morphological features of different types of icteruses	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Respiratory system	To study charts, transmissible and sweepable diffraction pattern of cellular composition of epithelium of aeriferous ways, air-blood barrier. To fill the table of distinctive features of bronchial tubes of different calibers	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Skin and her derivatives	To study charts, transmissible and sweepable diffraction pattern epidermis, structure and innervation of hair, development of skin, hair, sweat-glands	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Secretory system	To study charts, transmissible and sweepable diffraction pattern of the vascular system of bud, lamb's-feet of kidney Taurus. To fill the chart of development of primary bud and sexual glands, tissue composition of organs of the secretory system	Discussion on a theory and to preparations, verification of albums, decision of situational tasks, test tasks in Moodle
Masculine sexual system	To study charts, transmissible and sweepable diffraction pattern spermatogenesis for a man, structures and functions of testicles, structure and functional value of prostate	Discussion on a theory and to preparations,

	gland	verification of albums,
Woman sexual system	To study charts, transmissible and sweepable diffraction pattern of integumentary	decision of situational tasks,
•	epithelium of ovary, shells of oocyte. To study the hormonal adjusting of ovarian-	test tasks in Moodle
	menstrual cycle	

7. Forms of control

- 7.1. Current forms of control
- oral (an interview, a report, a colloquium, presentations of projects)
- written (checking of tests, review papers, essays, abstracts, lecture notes, solving of practical tasks, preparation of a case history).
 - 7.2. Forms of the interim assessment (examination)

Course examination is conducted in oral, consists of three parts:

- 1. Stage final test control (all students hand over on the last control employment of semester), in an examination session;
 - 2. Stage answer on two histological preparations (practical part);
 - 3. Stage answer for three questions of examination ticket and situational task.

Students collecting a final rating point in size of 93 and more than points can be released from 2th and 3 parts of examination.

8. Library and information materials of the course

8.1 Compulsory literature

- 1. Inderbir Singh's Textbook of Human Histology with Colour Atlas and Practical Guide [Text]: учебное пособие/ ed. N. Vasudeva. -7 th ed. -New Delhi, 2014. 439 p..-ISBN 978-93-5152-322-2, Б.ц
- 2. Singh I. Textbook of human histology: [with colour atlas]/ I. Singh. -5th. ed.. -Delhi: Jaypee brothers medical publishers (P) LTD, 2007. -365 p.
- 3. Singh I. Textbook of Human Histology: учебное пособие/ I. Singh. -5th. ed.. -New Delhi: Jaypee brothers medical publishers (P) LTD, 2006. -365 p: il.
- 4. S. I. Yushkantseva, V.L. Bykov A brief atlas of histology, cytology and embryology: St. Petersburg, 2007.-120p.
- 5. Textbook of Histology, 4 Edition, Gartner, Leslie P., PhD 2017 by Elsevier, Inc.
- 6. Stevens & Love's Human Histology, 4 Edition, Lowe, James S., 2015, by Mosby, an imprint of Elsevier Limited. ClinicalKey.

8.2 Supplementary course literature

- 1. Kuznetsov S.L. Histology, cytology and embryology: a course of lectures: The English version was edited by E.V. Babchenko/ S.L. Kuznetsov, T.V. Boronikhina, V.L. Goryachkina. -Mockba: Medical Informational Agency, 2004. -239 р.
- 2. Bashilova E.N. Materials of monitoring students' knowledge of the special histology/methodical development for students 1 and 2 courses of faculty of English medium.-NSMU,dep. of histology.-Arkhangelsk:2008.-108p.
- 3. Bashilova E.N. Materials final control of students' knowledge of general and special histology/ methodical development for students 2 course of faculty of English medium.-NSMU,dep. of histology.-Arkhangelsk:2008.-22p.
- 4. Visceral smooth muscle tissue A. Zashihin, Ya.Selin / Arhangelsk.- 2001.
- 5. Bykov VL Cytology and general histology (functional morphology of cells and tissues). SPb .: SOTIS 2002
- 6. Bykov VL Private histology (functional morphology of cells and tissues). SPb .: SOTIS 2002
- 7. Singh I. Textbook of Human Histology/ I. Singh. -4th ed.. -New Delhi: Jaypee Brothers Medical Publishers(P) LTD, 2002. -355 p.: il
- 8. Textbook of Histology, 4 Edition, Gartner, Leslie P., PhD 2017 by Elsevier, Inc. ClinicalKey.
- 9. Netter's Essential Histology, 2 Edition, Ovalle, Wiliam K., PhD, 2013, by Saunders, an imprint of Elsevier Inc. ClinicalKey.
- 10. Histology:n Identification Manual, Tallitsch, Robert B., PhD., 2009 by Mosby, Inc., an affiliate of Elsevier Inc. ClinicalKey.
- 11. Concise Histology, Gartner, Leslie P., PhD, 2011 by Saunders, an imprint of Elsevier Inc.

ClinicalKey.

8.3. List of Internet resources required for mastering of the course (module)

№	Resources	URL address	Resource Annotation
1	Digital library system "IPRbooks"	http://www.ipr bookshop.ru/	
2	Digital Library of Medicine "Doctor's consultant"	http://www.ro smedlib.ru/	
3	Digital versions of publications scientific digital library – "eLIBRARY"	http://elibrary.ru/	Научная электронная библиотека eLIBRARY.RU - это крупнейший российский информационно-аналитический портал в области науки, технологии, медицины и образования, содержащий рефераты и полные тексты более 29 млн научных статей и публикаций, в том числе электронные версии более 5600 российских научно-технических журналов, из которых более 4800 журналов в открытом доступе.
4	University digital library	http://lib.nsmu .ru/lib/	
5	Digital library card of the Central Scientific Library of Medicine	http://www.e mll.ru/newlib/	

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

№	Platform of EL DLT	Name of the e-course, authors, URL	E-course implementation model
		address	
		English medium Histology, Embryology, Bashilova E.N., k.m.s., docent, Agaphonov Y.V., d.m.s., professor, Dolgikh O.V., k.b.s., docent A.Zashikhin d.m.s., professor, https://edu.nsmu.ru/course/view	Web- support
		.php?id=395	

8.5. The list of the software and information & reference systems

При осуществлении образовательного процесса студентами и профессорско-преподавательским составом используются следующее программное обеспечение: операционная система - MS Windows Vista Starter, MS Windows Prof 7 Upgr; офисный пакет - MS Office 2007; другое ПО - 7-zip, AdobeReader, Kaspersky Endpoint Security.

9. Material and technical facilities necessary for the educational process

No.	The name of the school's	Location of the study	List of the main equipment of
	office	room	the study room
1	Laboratory-based	1243	36
	practicals		specialized tables with
			illumination Microscopes
			"Biola », microscope

			model - 9-10, projection microscope
2	Laboratory-based practicals	1236	24 specialized tables with illumination Microscopes "Biola », microscope model - 9-10, projection microscope
3	Laboratory-based practicals	1234	20 specialized tables with illumination Microscopes "Biola », microscope model - 9-10, projection microscope
4	Laboratory-based practicals	1241	36 specialized tables with illumination Microscopes "Biola », microscope model - 9-10, projection microscope

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline Physical culture and sport

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1 / 1,2

Form of the interim assessment Pass/fail test

Department of physical culture and medical rehabilitation

Discipline workload 72 (academic hours) / 2 (credits)

Approved at the department meeting

Minutes No. 10

June 15th 2021

Head of the department

N.I. Ishekova

Author and compiler:

G.V. Puchinskiy

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Stand- ard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects)

The discipline is related to prior subjects of the curriculum: physical culture at school, Physical education at school.

The discipline is related to subsequent subjects of the curriculum: "Elective courses of physical culture".

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum:

Practice oriented lessons and lectures covering key topics in the sphere of physical education.

2. Goal and tasks of the mastering of the discipline

The goal of the physical culture course at a higher education institution is to develop the physical culture of students, as well as their capability to purposefully and on a reasonable methodological basis use various physical culture means, methods, and organizational forms allowing them to develop the personal health saving life activities required for the professional and personal formation.

In order to achieve this goal, the following *tasks* should be fulfilled during the course:

- 1. To develop the sustainable and positive motivation of students for learning, as well as for taking part in competitions and research-to-practice conferences on the physical culture.
- 2. To develop students' knowledge about the physical culture theory, history, and methodology using the innovative learning techniques.
- 3. To educate students on the know-how and skills of practicing various sports, as well as the state-of-the-art neuromuscular and health improvement systems.
- 4. To develop students' readiness to apply the sport and health improvement techniques to achieve a high level of physical health and maintain it during the study at a higher education institution and the further professional career.
- 5. Ability and readiness for educating adults, teenagers, and their relatives on the basic health improving hygiene practices promoting health, disease prevention, as well as development of the healthy lifestyle skills.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement		
УК-7 Способен поддерживать должный уровень физической подготовленности для обеспечения полноценной социальной и профессиональной деятельности	7.1. Применяет принципы физического воспитания для повышения адаптационных резервов организма и укрепления здоровья 7.2. Выбирает здоровьесберегающие технологии для поддержания здорового образа жизни с учетом физиологических особенностей организма 7.3. Обосновывает грамотное планирование своего рабочего и свободного времени для оптимального сочетания физической и умственной нагрузки 7.4. Поддерживает оптимальный уровень физической подготовленности для обеспечения полноценной социальной		
ОПК-3 Способен к противодействию	3.3. Проводит санитарно-просветительскую		

применения допинга в спорте и борьбе с ним	работу, направленную на борьбу с допингом в
	спорте, среди обучающихся.

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 2 credits.

Type of the academic work	Total hours	Te	rm
		1	2
Students'contact work with the teacher (total)	36	18	18
Including:			
Lectures (L)	8	4	4
Seminars (Sem.)			
Practical classes (PC)	28	14	14
Clinical practicals (CP)			
Laboratory-based practicals (LBP)			
Simulation-based practicals (SBP)			
Preparation for the examination (PE)			
Preparation for the credit (PC)			
Exam consultations (EC)			
Coursework (CW)			
Unsupervised work (UW) (total)	36	18	18
Examination control (EC)			
Total discipline workload	72/2	36	36

5. Course content:

5.1. Contents of the sections of the course

No	Name of the course section	Content of the section
	Basic part	
1	Introductory section	Arrangement of the physical culture education process in a higher education institution. Introduction to the physical culture department, the sports/fitness complex, and the sports club. Allocation to the functional health groups for exercises in the main, sports, and special sections. Safety induction at physical education and sports classes. Testing of movement qualities and abilities, evaluation of physical development. Functional status evaluation.
2	Track and field athletics	Even and changing pace running. Jumping exercises. Special running exercises. Accelerated running, up to 60 m. "Fol-low-the-leader" running. Accelerated uphill running, up to 20 m. Accelerations, up to 60 m. Standing long-jump

		technique. High start technique. Acceler-ation from various preparatory positions. Technique of passing the baton — demon- stration, explanation. Simulation of pass-ing the baton on the spot. Relay races with passing the baton. Middle-distance and long-distance run- ning: 300, 500, 1000, and 2000 m.
3	Basketball	Fundamental techniques. Main shots. Two-handed set shots. Dribbling on the spot. Passing on the spot. Running shots: one-handed set shot, standing two- handed shot. Jump shots: Running shots. Shots. Free throw. Credit out of 5-(3-2-1) goals. Refereeing rules. Interaction between three cornermen and three guards during a game. Movement tasks with the basketball elements. Educational training games by the simplified rules. Educational training game. Development of coordination capabilities and special endurance.
4	Badminton	Fundamental techniques. Main shots. High long serve. Short serve. Flat serve.High doubles serve. Net shots. Base- line shots. Grips. Racket movements. Game techniques. Game tactics. Refereing rules. Interactions during a game. Educational training game. Development of coordination capabilities and special endurance.
5	Volleyball	Prevention of injuries at volleyball clas-ses. Improvement of overhead and fore- arm passes in combination with move- ments. Forearm forward and hook serves. Game exercises. Serve receive / passing exercises in groups. Ball return with a fist. Educational training volley- ball game. Volleyball warm-up rules. Passing tactics. Playing volleyball by therules. Serve receive / passing exercises in groups. Defense tactics: selection of a serve receive method, supervision. Prac-tice of the techniques learned in a two- sided game. Games and relay races with a ball. Games: "Gun-fight", "Sniper", "Hunters and Ducks". Record exercises with a ball. Five (5) successful serves (high, low, or hook serves at option). 20passes in pairs (overhead and forearm re-ceive). Educational training game.

6	Professional and Applied Physical Training	General, special, athletic and profession-ally applied physical training of students. Professionally applied physical training means and methods. Development of themain and professionally applied physical qualities and abilities, as well as the movement skills. Sets of professionally oriented physical exercises. Appliedsports. Assessment of students' professionally applied fitness.
7	Testing Section	Test of residual physical culture knowledge. Testing of movement quali-ties and abilities, Evaluation of physical development. Functional status evaluation. Filling-in of a student's athletic health passport (medical and athletic records). Point-rating system based end-of-termtest on physical culture.
	Elective part	
8	Health improving training	Health improving training in the physical education of students. Mastering and studying the main health and fitness techniques. Aerobic (cardiorespiratory) training, ar- tistic (muscular) gymnastics, breathing exercises, joint gymnastics, muscular re-laxation, eyes gymnastics, stretching, etc. Peculiarities of the health improvement oriented development of the physical qualities and abilities. Balancing of physical exercises. Adjustment of health improving exercises based on health grounds
9	Theory section	 The effect of physical exercises on health. Load: outer and inner load (the basisof load, loading factors). Load: outer and inner load (training methods, load and adaptation). 4. Methodical problems of the arrangement of load.

5.2. Sections and types of studies

No.	Name of the course	L	\mathbf{S}	P	CP	LBP	SBP	UW	Total
	section								hours
	Introductory section			4				12	16

Theory section	8				8
Practicum section					
-Track and field athlet-ics		4		6	10
-Basketball					
-Volleyball		4		6	10
-Badminton		4		6	10
-Health improving train-ing		4		6	10
-Professional and ap-		3			3
plied physical train-					
ing		3			3
Testing section		2			2

6. List of teaching materials for the course unsupervised work of students (including the use of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control
1	introductory section	Completing tasks in work- book on physical culture	Workbook
2	i racticalli section	Sessions related to sports and healthy lifestyle, Olympic and adaptive kinds of sport	Lectures on Moodle digital platform

7. Forms of control

- 7.1. Current forms of control
- Oral: interview, oral report, and snap poll,
- In writing: check of workbooks, tests, library-research papers, and notes,
- Practical: testing of physical qualities and abilities,
- -Assessment of the physical development indicators,
- -Assessment of movement skills.
- -Functional status evaluation.

A theme list of abstracts, reports, essays, review papers, test collections and situational prob-lems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

7.2. Forms of the interim assessment: pass/fail test.

Stages of the interim assessment

- 1. Stage testing of physical qualities and abilities
- 2. Stage evaluation of knowledge and movement skills
- 3. Stage evaluation of physical training level using the point-rating system

Questions for a pass/fail test and an examination, a theme list of test collections and situa-tional problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

8.1. Compulsory literature

- 1. Евсеев Ю.И. Физическая культура [Электронный ресурс] : [для студентов и преподавателей высш. и сред. учеб. заведений]/ Ю. И. Евсеев. -9-е изд.. -Ростов-на-Дону: Феникс, 2014. -444 с.- URL: http://www.studentlibrary.ru/book/ISBN9785222217627.html
 - 8.2. Supplementary literature
- 1. Workbook on physical culture [Электронный ресурс] : методический материал /
- S. L.Sovershaeva [и др.]. Архангельск : Изд-во Северного государственного медицин- ского университета, 2016. 36 р. Режим доступа: http://nb.nsmu.ru/cgibin/irbis64r_11/cgiirbis_64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S21S

<u>TN=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S2</u>1P02

=1&S21P03=I=&S21STR=elb/W83-286633

8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

No॒	Resources	URL address	Resource Annotation
1	International university sports federation	https://www.fi su.net/	ISU offers opportunity and inspiration to students around the world to play sport. The health, wellbeing, and experiences that students gain from sport help them become exemplary leading members of society. Hence, FISU's motto of Excellence in Mind and Body.
2	Volleyball advisors	http://www.vo lleyballadvi- sors.com	Includes volleyball game and practice tips - volleyball drills, skills, tactics, conditioning exercises and rules among others.
3	Basketball rules	https://www.fi ba.basketball/	FIBA, the International Basketball Federation, is the world governing body for basketball. Founded by eight nations in 1932, we now bring together 212 National Basketball Federations from all over the world. A non-profit making organization, our mission is to develop and promote the game of basketball, uniting the wider basketball community, which counts more than 450 million players and fans.

4	World Health Organization	https://www.w ho.in t/	Dedicated to the well-being of all people and guided by science, the World Health Organization leads and champions global efforts to give everyone, everywhere an equal chance to live a healthy life.
5	Olympic games	https://www.olym- pic.org/	Olympic cometee. Olympic games.

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

	F	,,	
No॒		Name of the e-course, authors, URL address	E-course implementation model
1		Physical culture and sports".	Practice oriented lessons and lectures covering key topics in the sphere of physical education.

8.5. The list of the software and information & reference systems

9. Material and technical facilities necessary for the educational process*

No	Name of the study room	Location of the study room	List of the main equipment of the study room
1	Classroom for lecture- type classes No 2403 of Marine Medicine, ad- ministrative educational building, 4th floor	Arkhangelsk, Troitsky prospect,51	A set of educational furniture (tables, chairs, screen, whiteboard) teach-er's workplace, work- places for students for 300 seats, laptop, projector, video camera, whiteboard marker
2	Classroom for seminar-type classes, group and individual consultations, current controland intermediate certificationNo. 1429, main educational building, 4th floor	Arkhangelsk, Troitsky prospect,51	A set of educational furniture (tables, chairs, screen, board), teacher's workplace, work- places for students for 10 seats. b), laptop, projector, video camera, whiteboard marker
3	Sports hall No 1421, administrative educational building, 4th floor area of 466.8 sq.m	Arkhangelsk, Troitsky prospect,51	Metal tower, 1-element board, basketball rings, gymnastic mats, gymnastic benches, Swe-dish wall, volleyball racks, sports scoreboard, power sim- ulators, horizontal bars to the Swedish wall, basketball boards

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION
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APPROVED

Dean of the International Faculty of General Practitioner

Uley A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE COURSE (MODULE)

Discipline Elective subjects of physical culture and sport. General physical preparation

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1,2,3 / 1,2,3,4,5,6

Form of the interim assessment **Pass/fail test**

Department of Physical Culture and Medical Rehabilitation

Course workload 328 (hours)

Approved at the department meeting

Minutes No. 10

June 7th 2021

Head of the department

N.I. Ishekova

Author and compiler:

M.N. Repitskaya

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Stand- ard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects.

The discipline is related to prior subjects of the curriculum: physical culture and sports.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive.

2. Goal and tasks of the mastering of the discipline

The goal of the physical culture course at a higher education institution is to develop the physical culture of students, as well as their capability to purposefully and on a reasonable methodological basis use various physical culture means, methods, and organizational forms allowing them to develop the personal health saving life activities required for the professional and personal formation.

In order to achieve this goal, the following *tasks* should be fulfilled during the course:

Mastering the system of practical skills that ensure the preservation and strengthening of health, mental well-being, development and improvement of psychophysical abilities, qualities and personality traits.

Ensuring general and professional physical fitness, which determines the psychophysical readiness of a student for a future profession.

To develop students' readiness to apply the sport and health improvement techniques to achieve a high level of physical health and maintain it during the study at a higher education institution and the further professional career.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator	of	the	competence
	achievemen	t		

Universal competencies (UC)-№ УК-7 ИД -7.1. Student applies the principles of Student is able to maintain the properphysical education to increase level of physical fitness to ensure fulladaptive reserves of the body and social and professional activity. strengthen health ИД -7.2. Student chooses health-saving technologies to maintain a healthy lifestyle, taking account into the physiological characteristics of the body ИД -7.3. Student justifies competent planning of your working and free time for the optimal combination of physical and mental stress ИД -7.4. Student maintains an optimal level of physical fitness to ensure full social and professional activity

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 328 hours

Type of the academic work	Total			Te	rm		
	hours	1	2	3	4	5	6
Students'contact work with the teacher (total)	192	12	12	42	42	42	42
Including:							
Lectures (L)	24			6	6	6	6
Seminars (Sem.)	168	12	12	36	36	36	36
Practical classes (PC)							
Clinical practicals (CP)							
Laboratory-based practicals (LBP)							
Simulation-based practicals (SBP)							
Preparation for the examination (PE)							
Preparation for the credit (PC)							
Exam consultations (EC)							
Coursework (CW)							
Unsupervised work (UW) (total)	136	18	18	12	38	12	38
Examination control (EC)							
Total discipline workload	328	30	30	54	80	54	80

5. Contents of the course:

5.1. Contents of the sections of the course

No. Name of	the course section	Contents of the section
-------------	--------------------	-------------------------

1	2	3
1	Healthy life style of a person	1. Physical education
		2. Track and field. Basketball
		3. Sports and healthy lifestyle
		4. Modern types of fitness
		5. Health Concept. Human Body Build.
		6. Assessment of Physical Development
		and Functional Status of Human Body.
		Assessment of Physical Development.
		7. Health Loss Risk Factors.
		8. Profession-specific physical training
		(pspt) of specialists.
		9. Hypodynamia. Physical Activity for
		Disease Prevention.
		10. Energy Metabolism during Physical
		Exercises. Dynamics of Physiological
		State during Physical Activities.
		11. Influence of Physical Activity on
		Various Body Systems. Role of Physical
		Exercises.
		12. Sports Injuries. Sports Injury
		Prevention.
2	General physical fitness without	Introductory session. Safety. A set of
	equipment.	simple exercises. A set of exercises to
		increase flexibility, agility, speed and
		strength. Testing of movement qualities
		and abilities, evaluation of physical
		development.
3	General physical training with	Introductory session. Safety. Exercises
	weights.	with dumbbells. A set of exercises to
		increase flexibility, agility, speed and
		strength. Exercises with ball.
4	Stretching	Introductory session. Safety. Basic
		stretching exercises. Static stretching
		exercises.
5	Testing Section	Test of residual physical culture
		knowledge. Testing of movement
		qualities and abilities,
	•	

	Evaluation of physical development.
	Functional status evaluation.
	Filling-in of a student's athletic health
	passport (medical and athletic records).
	Point-rating system based end-of-term
	test on physical culture.

5.2. Sections and types of studies

No.	Name of the course	L	S	P	CP	LBP	SB	UW	Total
	section						P		hours
1	Healthy life style of a person	24						30	54
2	General physical fitness without equipment.			58				32	90
3	General physical training with weights.			78				32	110
4	Stretching			24				25	49
5	Testing Section			8				17	25

List of teaching materials for the course unsupervised work of students (including theuse of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control
1	Healthy life style	Working with physical education notebook	Results interpretation
2	General physical training with weights	Self-study	Show of a set of exercises
3	Stretching	Self-study	Show of a set of exercises

7. Forms of control

- 7.1. Current forms of control
- Practical: testing of physical qualities and abilities
- In writing: check of workbooks, tests, library-research papers, and notes

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

- 7.2. Forms of the interim assessment (pass/fail test, examination, term paper) Stages of the interim assessment
 - 3. Stage evaluation of physical training level using the point-rating system

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

- 8.1. Compulsory literature
- 1. Evseev, Yu. I. Physical culture [Electronic resource]: [for students and teachers of higher education. and Wednesday study. institutions] / Yu. I. Evseev. 9th ed. Rostov-on-Don: Phoenix, 2014 .-- 444 p. Access mode: http://www.studmedlib.ru/
- 2. Workbook on physical culture [Electronic resource]: hands. to theor. classes / comp. S. L. Sovershaeva [and others]. Arkhangelsk: Publishing house of the Northern State Medical University, 2016. 60 p. Access mode: http://lib.nsmu.ru/lib/

8.2. Supplementary literature

- 1. Zakharova, L. V. Physical culture [Electronic resource]: textbook / L. V. Zakharova, N. V. Lyulina, M. D. Kudryavtsev. Krasnoyarsk: Siberian Federal University, 2017 .-- 612 p. URL: http://www.studentlibrary.ru/book/ISBN9785763836400.html
- 8.3. List of the Internet resources required for mastering of the course (module)* 1. https://www.sportedu.org.ua/index.php/PES- Physical education of students
- 8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

No	Platform of EL DLT	Name of the e-course,	E-course implementation
		authors, URL address	model
1	Moodle	General Medicine	
		Elective course in	
		physical culture and	
		sports	
		https://edu.nsmu.ru/c	
		ourse/view.php?id=1	
		203	

8.5. The list of the software and information & reference systems

Операционная система

MS Windows Vista Starter
MS Windows Prof 7 Upgr
Офисный пакет
MS Office 2007
Другое ПО
7-zip
AdobeReader
Kaspersky Endpoint Security

9. Material and technical facilities necessary for the educational process*

No.	The name of the school's	Location of the study room	List of the main equipment of the study room
1	office Classroom for lecture-type lessons No. 2403 of Marine Medicine, administrative building, 4th floor	•	a) list of main equipment: A set of educational furniture (tables, chairs, screen, blackboard) teacher's workplace, workplaces for students for 300 places. b) sets of demonstration equipment speakers, monoblock, projector, screen c) a list of teaching aids: schemas, tables d) software used: Kaspersky endpoint Security. License number 26FE-191125-134819-1-8403. MS Office 2007. MS Win Starter 7. MS Windows Prof 7 Upgr. MS Windows Server CAL 2008 Device CAL. License number 46850049, unlimited Radmin Viewer 3. Radmin Server 3. Document number 11001793 Traffic inspector. License agreement
2	A 1: 1 11	1 < 2000	No. 1051-08 dated 04/10/2008, unlimited
2	Aerobics hall No. 1024, main educational building, 0 floor, area 63.5 sq.m.	163000, Arkhangelsk, NSMU Troitsky av. 51	Vinyl dumbbells, gymnastic mats, gymnastic balls, gymnastic steel hoops, gymnastic weighted hoops, gymnastic sticks, jump ropes, benches, wall bars, step board

3	Room for	163000,	Ski boots, ski bindings, skis, ski
	storage and	Arkhangelsk,	poles, Nordic walking poles
	preventive	NSMU	
	maintenance	Troitsky av. 51	
	of educational	,	
	equipment No.		
	1030, main		
	educational		
	building, 0		
	floor		
4	Wrestling hall	163000,	Swedish wall, jump ropes, gymnastic
	№ 1029, main	Arkhangelsk,	mats
	educational	NSMU	
	building, 0	Troitsky av. 51	
	floor, area	-	
	123.1 sq.m.		
5	Gym № 1017,	163000,	Exercise machines, dumbbells,
	main	Arkhangelsk,	weights, mats, benches, jump ropes,
	educational	NSMU	weights
	building, 0	Troitsky av. 51	
	floor, area 140		
	sq.m.		

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE COURSE (MODULE)

Discipline Elective subjects of physical culture and sport. Sport games

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1,2,3 / 1,2,3,4,5,6

Form of the interim assessment Pass/fail test

Department of Physical Culture and Medical Rehabilitation

Discipline workload **328** (academic hours)

Approved at the department meeting

Minutes No. 10

June 7th 2021

Head of the department

N.I. Ishekova

Author and compiler:

M.N. Repitskaya

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Stand- ard (FSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects.

The discipline is related to prior subjects of the curriculum: physical culture and sports.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive.

2. Goal and tasks of the mastering of the discipline

The goal of the physical culture course at a higher education institution is to develop the physical culture of students, as well as their capability to purposefully and on a reasonable meth- odological basis use various physical culture means, methods, and organizational forms allowing them to develop the personal health saving life activities required for the professional and personal formation.

In order to achieve this goal, the following tasks should be fulfilled during the course:

Mastering the system of practical skills that ensure the preservation and strengthening of health, mental well-being, development and improvement of psychophysical abilities, qualities and personality traits.

Ensuring general and professional physical fitness, which determines the psychophysical readiness of a student for a future profession.

To develop students' readiness to apply the sport and health improvement techniques to achieve a high level of physical health and maintain it during the study at a higher education institution and the further professional career.

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed competences	Indicator of the competence achievement
Universal competencies (UC)-№ YK-7 Student is able to maintain the proper level of physical fitness to ensure full social and professional activity.	ИД -7.1. Student applies the principles of physical education to increase the adaptive reserves of the body and strengthen health ИД -7.2. Student chooses health-saving technologies to maintain a healthy lifestyle, taking into account the physiological characteristics of the body ИД -7.3. Student justifies competent planning of your working and free time for the optimal combination of physical and mental stress ИД -7.4. Student maintains an optimal level of physical fitness to ensure full social and professional activity

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 328 hours

Type of the academic work	Total	Term					
	hours	1	2	3	4	5	6
Students'contact work with the teacher (total)	192	12	12	42	42	42	42
Including:							
Lectures (L)	24			6	6	6	6

Seminars (Sem.)	168	12	12	36	36	36	36
Practical classes (PC)							
Clinical practicals (CP)							
Laboratory-based practicals (LBP)							
Simulation-based practicals (SBP)							
Preparation for the examination (PE)							
Preparation for the credit (PC)							
Exam consultations (EC)							
Coursework (CW)							
Unsupervised work (UW) (total)	136	18	18	12	38	12	38
Examination control (EC)							
Total discipline workload	328	30	30	54	80	54	80

5. Contents of the course:

5.1. Contents of the sections of the course

No.	Name of the course section	Contents of the section
1	2	3
1	Basketball	Rules, technique and tactics of the game.
2	Volleyball	Rules, technique and tactics of the game.
3	Badminton	Rules, technique and tactics of the game.
4	Floorball	Rules, technique and tactics of the game.
5	Sport-related games	Kinds of sport-related games. Relays with additional objects.
6	Testing Section	Test of residual physical culture knowledge. Testing of movement qualities and abilities, Evaluation of physical development. Functional status evaluation. Filling-in of a student's athletic health passport (medical and athletic records). Point-rating system based end-of-term test on physical culture.
7	Healthy life style of a person	 Physical education Track and field. Basketball Sports and healthy lifestyle Modern types of fitness Health Concept. Human Body Build. Assessment of Physical Development and Functional Status of Human Body. Assessment of Physical Development. Health Loss Risk Factors. Profession-specific physical training (pspt) of specialists. Hypodynamia. Physical Activity for Disease Prevention. Energy Metabolism during Physical Exercises. Dynamics of Physiological State during Physical Activities.

	11 T Cl CDl ' 1 A (' '/ X7 '
	11. Influence of Physical Activity on Various
	Body Systems. Role of Physical Exercises.
	12. Sports Injuries. Sports Injury Prevention.

5.2. Sections and types of studies

No.	Name of the course	L	S	P	CP	LBP	SBP	UW	Total
	section								hours
1	Basketball			54				28	82
2	Volleyball			56				40	96
3	Badminton			18				20	38
4	Floorball			24					24
5	Sport-related games			16				12	28
6	Testing Section							26	26
7	Healthy life style of a person	24						10	34

5. List of teaching materials for the course unsupervised work of students (including theuse of e - learning opportunities, distance learning technologies (Moodle))

No.	Name of the course section	Types of the unsupervised work	Forms of control	
1	Sport-related games	Prepare sport-related game	Conducting a sport-related game in the group of students	
2	Basketball	Learning of game rules	Participation and judgment in competitions	
3	Volleyball	Learning of game rules	Participation and judgment in competitions	

7. Forms of control

- 7.1. Current forms of control
- Practical: testing of physical qualities and abilities
- In writing: check of workbooks, tests, library-research papers, and notes

A theme list of abstracts, reports, essays, review papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Evaluation tools'.

- 7.2. Forms of the interim assessment (pass) Stages of the interim assessment
 - 3. Stage evaluation of physical training level using the point-rating system

Questions for a pass are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

8. Library and information materials of the course

- 8.1. Compulsory literature
- 8.2. Supplementary literature
- 1. Workbook on physical culture [Электронный ресурс]: методический материал / S.
- L. Sovershaeva [и др.]. Архангельск : Изд-во Северного государственного медицинского университета, 2016. 36 р. Режим доступа: <a href="http://nb.nsmu.ru/cgi-bin/irbis64r_11/cgiirbis_64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S21S_TN=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=1&S21P03=I=&S21STR=elb/W83-286633

8.3. List of the Internet resources required for mastering of the course (module)*

No	Resources	URL address	Resource Annotation
1	International university	https://www.fi	ISU offers opportunity and
	sports federation	su.net/	inspiration to students around the
			world to play sport. The health,
			wellbeing, and experiences that
			students gain from sport help them
			become exemplary leading members
			of society. Hence, FISU's motto of
			Excellence in Mind and Body.
2	Volleyball advisors	http://www.vo	Includes volleyball game and practice
		<u>lleyballadvi-</u>	tips - volleyball drills, skills, tactics,
		sors.com	conditioning exercises and rules
	D 1 1 1 1	1 // 6"	among others.
3	Basketball rules	https://www.fi	FIBA, the International Basketball
		ba.basketball/	Federation, is the world governing
			body for basketball.
			Founded by eight nations in 1932, we now bring together 212 National
			Basketball Federations from all over
			the world.
			A non-profit making organization,
			our mission is to develop and
			promote the game of basketball,
			uniting the wider basketball
			community, which counts more
			than 450 million players and fans.
4	World Health Organization	https://www.who.in	Dedicated to the well-being of all
		t/	people and guided by science, the
			World Health Organization leads

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

№	Platform of EL DLT	Name of the e-course,	E-course implementation model
		authors, URL address	
1	Moodle	General Medicine	
		Elective course in	
		physical culture and	
		sports	
		https://edu.nsmu.ru/cour	
		se/view.php?id=1203	

8.5. The list of the software and information & reference systems

Операционная система

MS Windows Vista Starter

MS Windows Prof 7 Upgr

Офисный пакет

MS Office 2007

Другое ПО

7-zip

AdobeReader

Kaspersky Endpoint Security

9. Material and technical facilities necessary for the educational process*

No.	The name of the school's	Location of the study	List of the main equipment of
	office	room	the study room
1	Учебная аудитория для	NSMU	а) перечень основного
	проведения занятий	Troitsky av. 51	оборудования:
	лекционного типа No 2403		Комплект учебной мебели
	Морской медицины,		(столы, стулья, экран,
	административный		доска) рабочее место
	учебный корпус, 4 этаж		преподавателя, рабочие места
			для обучающихся на 300
			мест.
			б) наборы
			демонстрационного
			оборудования
			колонки, моноблок, проектор,
			экран
			в) перечень учебно-
			наглядных пособий:
			схемы, таблицы
			г) используемое программное
			обеспечение:
			Kaspersky endpoint Security.
			Номер лицензии 26FE-
			191125-134819-1-8403.
			MS Office 2007. MS Win
			Starter 7. MS Windows Prof 7
			Upgr. MS Windows Server
			CAL 2008 Device CAL.
			Номер лицензии 46850049,
			бессрочно
			Radmin Viewer 3. Radmin

			Server 3. Номер документа 11001793 Traffic inspector. Лицензионное соглашение No1051- 08 от 10.04.2008,
2	Спортивный зал No 1421, главный учебный корпус, 4 этаж	NSMU Troitsky av. 51	площадь 466,8 кв.м Оборудование: Вышка металлическая, доска 1-элементная, кольца баскетбольные, маты гимнастические, скамейки гимнастические, стенка шведская, стойки волейбольные, табло спортивное, тренажёры силовые, турники к шведской стенке, щиты баскетбольные

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION

Federal State Budgetary Educational Institution of Higher Education "NORTHERN STATE MEDICAL UNIVERSITY" of the Ministry of Healthcare of the Russian Federation

APPROVED

Dean of the International Faculty of General Practitioner

A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline Russian language

Field of training 31.05.01 General Medicine

Year (s) of study / term (s) 1, 2, 3, 4 years (terms 1, 2, 3, 4, 5, 6, 7, 8)

Form of the interim assessment graded test (5th term), exam (8th term)

Department of foreign languages and Russian language as foreign

Discipline workload 720 (academic hours) / 20 (credits)

Approved at the department meeting

Minutes No. 10

June 15th 2021

Opins

Head of the department

O.I. Vorobyova

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Russian language as foreign

Arkhangelsk, 2021

1. Position of the discipline (module) within the structure of the educational program

The discipline is developed following the requirements of Federal State Education Standard (FSES) for higher education in the field of 31.05.01 «General medicine».

The tasks of the mastering of the course:

1) READING TRAINING:

- development and improvement of reading skills (texts up to 1000 words, reading speed 50-60 words per minute when studying reading; 70–80 words per minute when reading with a general coverage of the content).
- the formation of skills and abilities in reading texts of educational and professional and sociopolitical spheres.

2) WRITING TRAINING:

- teach written monologue on the proposed topic (socio-cultural, educational and professional topics):
- teach written monologue on the basis of read or heard text.

3) SPEAKING TRAINING:

in monologue speech

- teach yourself how to create coherent, logical statements in accordance with the proposed topic, including the educational and professional sphere;
- teach to build a monologue utterance based on the text you have read or heard. in dialogic speech
- To teach to understand the content of the interlocutor's statements in a certain situation, to adequately respond to them, to start and conduct a dialogue.

4) LISTENING TRAINING:

-to teach to understand the main content of the monologue /dialogue with sufficient completeness (socio-cultural and educational professional areas of communication).

The discipline is related to the disciplines of the Basic part of the curriculum (or to the disciplines of the curriculum part formed by the participants of educational relations, including elective subjects and optional subjects)

The discipline is related to prior subjects of the curriculum:

The discipline is related to subsequent subjects of the curriculum:

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: preventive/diagnostic/organizational and administrative /research. This discipline is implemented in the first and second semesters of the first year of study and is a logical continuation of the course "Foreign language" (Russian language). The students develop the necessary language skills in reading, listening, speaking and writing at the elementary level (A1) and lay the foundations for mastering Russian as a foreign language at the basic level (A2).

Knowledge of Russian as a foreign language at an elementary level will satisfy the basic communicative needs of foreign students in the field of everyday communication and in the socio-cultural sphere, and will also contribute to their early adaptation in the Russian language environment.

2. Goal and tasks of the mastering of the discipline

The goal of mastering the discipline is the mastery by students of all types of speech activity (speaking, listening, reading, writing) in a volume corresponding to the threshold level of Russian language proficiency (B1 Threshold Level) in accordance with the requirements of the Federal State Educational Standard with the use of knowledge, skills and abilities in the field information technologies to improve speech skills, as well as increase the opportunities for independent mastery of the language of everyday communication and the language of the specialty.

Discipline objectives:

- 1. Formation of knowledge
- about the Russian language as the language of interethnic communication and the state language of the Russian Federation, about the stylistic differentiation of the modern Russian literary language and communicative tactics in everyday and professional communication;
- about the orthoepic norms of the modern Russian literary language, the peculiarities of the intonational design of the text;
- about the grammatical structure of the Russian language (paradigmatic and syntagmatic connections of words of different parts of speech; basic word-formation models of the Russian language, syntactic models of simple and complex sentences);
- about thematic groups (vocabulary of everyday communication in everyday, educational, sociocultural situations; vocabulary of everyday and professional communication (in the amount of 2300 units);
- about the peculiarities of Russian general cultural and professional speech etiquette and basic communication tactics and strategies
- about the features of professional communication with different groups of patients;
- about the possibilities and ways of using electronic resources in the study of foreign languages (educational portals, websites, mobile applications, electronic translators and dictionaries).
- 2. Formation of skills (mastering different types of speech activity in a foreign language, as well as information resources in the field of learning foreign languages):
- read and understand texts of different types of speech (description, narration, reasoning), understand and extract basic and additional information from a small text on everyday and highly professional topics that use common words and constructions (reading);
- build written statements: a simple, coherent text on familiar topics or topics of interest to the participants in the communication, draw up separate parts of medical documentation (letter).
- to understand by ear the statements of the interlocutor, the content of dialogues and monologues in situations of daily and professional communication, as well as information programs related to personal or professional interests, subject to the observance of the literary norm and a low speed of speech delivery (listening);
- participate in dialogical everyday and professional communication, be able to answer / ask questions, in particular, about impressions, plans, recommendations, health status, symptoms, treatment methods, etc., using simple phrases; briefly state and argue your views (speaking);
- use different communication techniques, taking into account the situation and status of the communication participants: friendly, official, professional communication, including with patients with disabilities (communication);
- use electronic educational resources (sites, applications, electronic libraries) for the formation of speech skills, a solid mastery of the lexical and grammatical structure of the language; electronic translators and dictionaries for understanding / producing speech;
- understand in Russian the inscriptions and markings on equipment for people with disabilities.
- use electronic translators and dictionaries, electronic educational resources, linguistic simulators for the formation and consolidation of speech skills and the development of lexical and grammatical material.
- 3. Skills formation
- fluent reading and understanding of simple texts on familiar topics (monologues and dialogues);
- listening and understanding speech in the target language with an average speed of pronunciation;
- the use of the studied linguistic units in the classroom and in the conditions of real communication (everyday, socio-cultural, professional spheres of communication) for the production of oral and written statements;
- the use of educational portals, sites, video channels for the study of foreign languages for the formation of your own language learning strategy.

- effective use of information technologies for unsupervised work and homework when learning foreign languages (educational portals, websites, mobile applications, electronic translators and dictionaries, linguistic simulators, etc.)

3. List of the planned learning outcomes of the discipline (module) in connection to the planned outcomes of the mastering of the educational program

Codes of the formed	Indicator of the competence achievement
competences	
Universal competencies	UC-4.1. Expresses his thoughts in Russian and foreign languages
(UC)-№4 - capable to use	in business communication
modern communication	UC-4.2. Complies with the norms of Russian and foreign
technologies, including in	languages when speaking in public
a foreign (s) language (s),	UC-4.3. Compiles texts in Russian and foreign languages related
for academic and	to professional activities
professional interaction	UC-4.4. Uses modern information and communication tools and
	technologies
	UC-4.5. Drafts, translates, edits various academic and professional
	texts
Universal competencies	ID-5.1. Respects ethical standards and human rights
(UC)-№5 Able to analyze	ID-5.2. Analyzes and takes into account ethnocultural, national
and take into account the	and confessional peculiarities in professional activity
diversity of cultures in the	ID-5.3. Forms a tolerant environment for interaction when
process of intercultural	performing professional tasks
interaction	ID-5.4. Overcomes barriers in the process of intercultural
	interaction
Universal competencies	UC-9.1. Applies effective communication and creates a tolerant
(UC)-№9 Able to use	environment when interacting with people with disabilities and
basic defectological	people with disabilities in social and professional activities
knowledge in social and	UC-9.2. Provides medical, social and organizational support to
professional spheres	people with disabilities when they receive medical care

^{*}The list of professional competencies is based on the requirements of the professional standard "General medicine (district physician)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 No. 293n

4. Volume of the discipline (module) and types of the academic classes:

Total workload of the course is 20 credits.

Type of the academic work								
Students'contact work with the teacher (total)	Total hours	Terms	Total hours	Terms	Total hours	Terms	Total hours	Terms
Including:								
Practical classes (PC)	108	1, 2	72	3,4	90	5, 6	72	7
Unsupervised work (UW) (total)	108	1, 2	72	3,4	90	5, 6	108	7

Total discipline	720
workload	

5. Course content:

5.1. Contents of the sections of the course

1st year

No	Name of the	Content of the section
	course section	
	Repetition	Repetition of basic information about the language, basic reading rules.
	(basic	Grammar. Noun: gender, number, singular case forms (nominative and
	information	prepositional). Thematic group "Names of persons by sex, age,
	about the	profession, etc.", "Kinship terms". Russian proper names.
	language	Pronouns. Personal pronouns. Meaning, case forms and use. Possessive
	obtained in the	and demonstrative pronouns. Meaning, forms of genus and use.
	course "Foreign	Concordance with a noun
	language")	Adjective. Full adjectives: agreement in gender and number with the noun
		in the nominative case. Brief adjectives Thematic groups "Color",
		"Size", etc., evaluative adjectives.
		The verb as the center of the sentence. infinitive. Species-tense forms of
		the verb. Verb conjugations. Imperative.
		Numeral. Cardinal and ordinal numbers in the nominative case.
		Adverbs of place, time, measure and degree. predicative adverbs,
		interrogative adverbs)
		Prepositions, conjunctions, particles.
		Simple sentences: two-part and one-part. Order of words in a sentence.
		The concept of a subject and a predicate. Compound sentences.
		Interrogative sentences.
		Basic textbooks and information and communication resources (LMS
		Moodle, video conferencing ZOOM, communication channel -
		WhatsApp). Resources for independent work (applications and sites for
		learning Russian for foreign citizens).
		Linguistic simulators for the formation of auditory-pronunciation skills.
		Online electronic keyboard with Russian fonts. Text scoring software
		(ICE Book Reader Professional) Electronic translators (PROMT machine
		translation system, Yandex translator, Google Translate)
		Electronic explanatory dictionaries (ABBY Lingvo live) Educational
		YouTube channels for learning Russian as a foreign language: RikiStudy,
		RussianLessons.Net; Learn Russian with RussianPod101.com
	Main course:	Vocabulary
	(lexical	Words, phrases, lexical phrases and constructions that provide
	minimum,	- generation and understanding of texts within the framework of the
	grammar	studied topics;
	topics)	- request and transfer of information of a domestic nature, as well as
		within the framework of the studied topics;
		- correct start and end of the conversation;
		- expression of their attitude to what is happening: assessment of a person,
		object, fact, event;

- expressions of the characteristics of a person, object, fact, event;
- expressions of greeting, acquaintance, farewell;
- expressions of gratitude, response to gratitude, apology, response to apology;
- expressions of a request, proposal, invitation, consent / disagreement, refusal.

The vocabulary is limited (780 units) *, but it is sufficient to meet the basic communication needs in specific everyday situations (everyday and socio-cultural spheres of communication).

The lexical minimum includes linguistic terms, medical vocabulary and vocabulary of social, everyday and socio-cultural spheres of communication.

Grammar: cases of nouns.

Prepositional case of nouns.

Meanings:

- в, на place (Отец работает в банке.);
- в, на location (Книги на столе.)
- o object of speech, thought (Я читал о Москве.);
- на means of transportation (Мы ездим в университет на автобусе.);
- на object of influence (Студент работает на компьютере.);
- в time of action connected by words месяц, год, неделя (Я приехал в сентябре.)

Functions:

- object (Виктор рассказал о семье.);
- circumstance of place (Я живу в Москве.);
- circumstance of time (Я приехал в сентябре.).

Accusative case of nouns

Meanings:

- a) without preposition:
- a person who has a direct object of action (Я знаю декана. Он читает журнал.);
- designation of a person with the verb звать (Мою подругу зовут Ира.);
- time of action:
 - a) duration (Я изучаю русский язык месяц);
- б) repeatability (Он ходит на стадион каждую неделю.);
- designation of the price after the verb стоить: (Книга стоит одну тысячу рублей.);
- б) with prepositions:
- в, на direction (Набил идёт в магазин. Я еду в университет на автобусе.);
- в time day of the week, hour (Лекция в среду в 10 часов.)
- через intersection (через мост, через улицу);
- через time period (Студенты приедут через неделю).

Functions:

- logical subject (Моего брата зовут Иван.);
- direct object with transitive verbs (Мой друг любит музыку.);
- circumstance of place (Студенты идут в общежитие.);
- circumstance of time (Мы не учимся в воскресенье. Я живу в России месяц.).

Accusative inanimate nouns. Transitive verbs читать, учить, слушать, смотреть, хотеть, делать, писать и др., which are used with accusative nouns without a preposition.

Accusative animate nouns. Transitive verbs встретить ,видеть, пригласить, ждать и др., which are used with accusative nouns without a preposition.: встретить преподавателя, видеть друга, ждать врача, пригласить гостя Formation and use of adjectives, possessive pronouns and ordinal numbers in the accusative case.

Genitive case of nouns.

Meanings:

- a) without preposition:
- the person who owns something (Эта книга моего друга.);
- social family relations (Анна секретарь декана. Борис брат Виктора.);
- the absence of a person, an object (У меня нет брата. В городе нет театра.);
- definition of the subject (Улица Гагарина);
- amount, measure
- a) in combination with cardinal numbers 2-4, 5-20, in a strictly limited set (два брата, пять студентов, 2 часа, 5 рублей);
- б) with words сколько, много, мало, несколько (Сколько студентов в группе?);
- exact date of the event, action (Он родился 10-го мая 1999- го года.);
- name of the month in the date (Сегодня первое сентября.).
- б) with prepositions:
- y-a person who owns something (У Виктора есть машина.);
- y location associated with the person (Я был у врача.);
- около, (не)далеко/близко от location (Мы живём недалеко от университета.);
- из, с, от starting point of movement: place, face (Он приехал из Индии. Он пришёл со стадиона. Я пришёл от врача.);
- до final destination of the movement (Как доехать до центра?);
- до, во время, после time of action (Во время войны он работал врачом в госпитале.);
- от object to move away from (Он отошёл от окна.);
- без absence of anything (чай без сахара).

Functions:

- logical subject (У Рахула есть сестра.);
- object when negated (У меня нет словаря.);
- object (Я был на открытии выставки.);
- definition of the subject (день спорта, кабинет декана);
- circumstance of place (Он приехал из Англии.).
- circumstance of time (Она пришла после обеда.);

Formation and use of adjectives, possessive pronouns and ordinal numbers in the genitive case.

Dative case of nouns.

Meanings:

a) without preposition:

- person who is in need of something (Мне надо позвонить.);
- addressee of the action (Я написал письмо маме);
- person experiencing a certain physical or emotional state (Мне нравиться играть в футбол. Детям холодно.).
- age of the person, the object (Сестре 20 лет. Городу 1000 лет.);
- б) with preposition:
- κ person as a target of movement (в ограниченном наборе) (Я иду κ врачу.);
- к person, object as the target of the approach (Мы подъехали к общежитию. Студент подошёл к преподавателю.);
- по place of movement (Друзья гуляли по городу.);
- по means of communication (Я говорю по телефону.)
- ;по sign of the subject in relation to the field of knowledge (Студенты слушали лекции по анатомии.);

Function:

- indirect object (Сампада позвонила подруге.);
- logical subject (Мне нравится анатомия.);
- circumstance of:
 - а) place (Я иду к врачу.);
- б) mode of action (Я получил письмо по факсу.);
- definition (У студентов был экзамен по биохимии.).

Dative case in impersonal constructions (дат. п. + нужно / можно / нельзя / трудно / легко. Dative case with verbs of movement Formation and use of adjectives, possessive pronouns and ordinal numbers in the case.

Instrumental case of nouns.

Meanings:

- a) with preposition:
- characteristic, sign of a person, an object with the verbs быть, стать, работать (Я буду врачом. Отец работает инженером.);
- object of interest, activities (Студенты занимаются спортом. $\mathfrak A$ интересуюсь анатомией).
- б) with prepositions:
- c togetherness (Набил был в магазине с другом .);
- с characteristic of the object (Я пью чай с молоком.); рядом с location (Мой друг живёт рядом с аптекой.); перед time (Консультация будет перед экзаменом.).

Functions:

- predicate (Он был врачом.);
- object (Отец гулял с сыном.);
- definition (Я люблю чай с сахаром.);
- circumstance of:
 - a) place (Сестра живёт рядом с магазином.);
 - б) time (Перед экзаменом я много занимался.)

Formation and use of adjectives, possessive pronouns and ordinal numbers in the instrumental case.

Grammar: Verbs

Conjugation of verbs. Perfect and imperfect verbs. Formation of

регfective verbs using prefixes and suffixes: читать — прочитать, писать — написать, опаздывать — опоздать. Verbs that form perfect and imperfect form from different roots: говорить — сказать, брать — взять. Verbs: идти-ходить, ехать-ездить. Verbs of movement. Verbs that show different kinds of movement: идти-ходить, ехать-ездить, бежать-бегать, плыть-плавать, лететь-летать, нести-носить, везти-возить, вести-водить. Meanings of verbs of movement with prefixes — по- - beginning of the movement (пойти, поехать); — при- - achievement of the ultimate goal of the movement (прийти, приехать); — y- - moving away from certain places (уйти, уехать); — в(о)-, в- - move inside (войти, въехать);

- вы- move outside (выйти, выехать);
- под- approaching a certain object (подойти, подъехать);
- от- moving a certain distance (отойти, отъехать);
- пере- moving from one place to another (перейти, переехать);
- до- reaching the final goal of the movement (доехать, дойти).

Forms of the perfect and imperfect form of the verbs of movement with the prefixes: приходить-прийти, приезжать-приехать и т.д. The use of imperfect and perfect verbs of movement.

Verbs of unidirectional and multidirectional movementидти (пойти) – ходить, ехать (поехать) – ездить в in the present, past future tense and imperative mood.

Verbs of movement combined with nouns. Prepositions B and HA with nouns in the accusative case when indicating the direction (в театр, вы гости, на вокзал, на день рождения и др.)

and in the prepositional case when indicating the type of transport (на [в] машине, на [в] автобусе, на [в] такси и др.)

verbs in combination with animate nouns in the dative case with the preposition K indicating the direction (идти к врачу, к другу) и предлогом ОТ + родительный падеж с противоположным значением (идти от врача, от друга)

Grammar - Syntax

Simple and complex sentences. Simple and complex-composed sentences on an extended set of lexical-grammatical material. Complex sentences (explanatory, attributive, temporary, conditional, target).

Basic textbooks and information and communication resources (LMS Moodle, video conferences ZOOM, communication channel - WhatsApp). Resources for independent work (applications and sites for learning Russian for foreign citizens). Electronic translators (PROMT machine translation system, Yandex translator, Google Translate) Electronic explanatory dictionaries (ABBY Lingvo live) Educational YouTube channels for learning Russian as a foreign language: RikiStudy, RussianLessons.Net; Learn Russian with RussianPod101.com

Speech topics (dialogues, texts on everyday, Speech practice:

Conversational topics: "My working day", "My day off", "Birthday", "Russian language lesson", "My future profession" "About myrself", "My family", "My friend" ("My girlfriend") - expansion

educational, professional topics) of the topic.

Dialogues: "Where do you live?", "Free time: what are you doing in the evening / on Sunday?", "In the store: I go to the store for groceries / I buy a gift", "In the city / on the bus", "In the cafeteria", "In the library", "Calling a taxi", "At the airport / check-in"

Working with texts (topics) corresponding to the profile of training: "Jeswin is sick", "Polyclinic of NSMU", "Jeswin goes to the pharmacy", "Disease of a friend", "Healthy lifestyle".

Dialogues: "At the reception", "At the doctor's appointment", "At the pharmacy", "Calling an ambulance."

Speaking:

Monologue speech: A story on a given topic.

Dialogue speech: influence, negotiate, maintain dialogue in situations related to the topics studied.

Listening:

Understand information by ear (topic, main idea); understand the main content of the dialogue; listen to a monologue and dialogical speech with the selection and subsequent discussion of the main ideas. Specially compiled or adapted texts are used, built on the basis of the lexical and grammatical material of this level.

Reading:

Types of reading: reading with general content coverage, learning reading, browsing and searching reading.

The prevailing topic is relevant for the social and social and cultural spheres of communication. The texts are used corresponding to the profile of training (texts of professional topics).

Letter:

Based on the text read

- create a written monologue of a reproductive nature in accordance with the communicative task;
- using questions, create a written statement of a productive nature on the proposed topic in accordance with the communicative attitude.

Text type: narration or message. Specially compiled texts are used based on the studied lexical and grammatical material. The volume of the presented text: up to 100 words. There are no unfamiliar words in the text. The volume of the created text: no more than 5 sentences.

Basic textbooks and information and communication resources (LMS

Moodle, video conferencing ZOOM, communication channel -

WhatsApp). Resources for independent work (applications and sites for learning Russian for foreign citizens).

Electronic translators (PROMT machine translation system, Yandex translator, Google Translate)

Electronic explanatory dictionaries (ABBY Lingvo live) Educational YouTube channels for learning Russian as a foreign language: RikiStudy, RussianLessons.Net; Learn Russian with RussianPod101.com.

2nd year

N₂ Name of the Contents of section

	discipline section	
1	2	3
1	Repeat the material learnt in the first	Input control
	year	Revision of grammar material of the 1st course: prepositional-singular system of nouns, adjectives and pronouns (demonstrative and possessive)
		Plural Nominative case of nouns, adjectives, demonstratives, and possessive pronouns
		Verbs of movement (идти – ходить, ехать – ездить)
		Time constructs (когда? Как долго? Как часто?)
		The text " M. V. Lomonosov, the great Russian scientist "(see text in the App)
		Vocabulary: название практики,
		больница, стационар, приемное
		отделение, терапевтическое
		отделение, помещения в отделении,
		мебель, сантехническое
		оборудование, медицинский
		персонал, одежда и обувь
		медперсонала, медицинские предметы, белье постельное и
		нательное, объективные показатели
		физического состояния пациента
		(рост, вес, пульс, давление,
	Basics of	температура)
	professional	
	communication	Conversational topic "Preparing for practice in the hospital"
		Control under section 1
2	Genitive plural of	Nouns, adjectives, and demonstrative and possessive pronouns in the
	nouns, adjectives,	genitive plural
	possessive	
	pronouns, and	Use of the pronoun "себя"
	demonstrative	Numerals + nouns (Genitive plural)
	pronouns.	Trumerais + nouns (Oemuve piurai)
		Text "Doctor Elena" (textbook by Yu. G. Ovsienko)
		Words for body parts and internal organs Constructions «Я болею», «У меня болит что?», «У меня болит где?»,
		«Боль где?», «Боль какая?», «Как ты себя чувствуешь?»
		Conversational topic "At a doctor's appointment"

	Basics of						
	professional	Control under section 2					
	communication						
3	Accusative plural	Nouns, adjectives and demonstrative and possessive pronouns in the					
	of nouns,	Accusative case plural					
	adjectives,						
	possessive	Groups of verbs (идти – ходить, видеть – смотреть, слышать –					
	pronouns, and	слушать, брать/взять, покупать / купить, показывать / показать,					
	demonstrative	сдавать / сдать, есть/ съесть, пить / выпить, лечить/вылечить, чистить					
	pronouns.	/ вычистить, выписывать/выписать, мыть / вымыть, принимать /					
		принять, лечить/вылечить)					
		The text "Dr. Lisa" (see text in the App)					
		The text Dr. Lisa (see text in the App)					
		Vocabulary on the topic «Острые респираторные заболевания»:					
		простуда, простудиться, повышенная температура, насморк, кашлять					
		(кашель), чихать (чихание), осложнение, измерять/измерить (что?)					
		The construction " при + prepositional case"					
		The text "Острые респираторные заболевания" (see text in the App)					
		тие сель Острые респираторные заоблевания (see сель и ше Арр)					
		Conversation topic «Colds Prevention»					
	Basics of						
	professional	Control under section 3					
	communication						
4	Prepositional plural	Nouns, adjectives, and demonstrative and possessive pronouns in the					
	of nouns,	Prepositional plural					
	adjectives, possessive	Verbs: находиться, родиться, жить, лечиться,					
	pronouns, and	рассказывать/рассказать, брать/взять, покупать/ купить,					
	demonstrative	спрашивать/спросить, выступать/ выступить, думать/подумать					
	pronouns						
		Text of "M. B. Пиккель " (see the text in the appendix)					
		Vocabulary on the topic «У меня болит горло» (шея, глотать					
		(глотание), воспаляться (воспаление), гной (гнойный), запах,					
		полоскать (полоскание), слюнные железы, нёбо, слюна,					
		лимфатические узлы, повязка)					
		The text "Angina" (see text in the App)					
	Racios of						
	Basics of	Colloquial tonic "Strangthening the immune system"					
	professional communication	Colloquial topic "Strengthening the immune system"					
	Communication	Control under section 4					
5	Dative case of	Nouns, adjectives, and demonstrative and possessive pronouns in the					
,	Dan ve case of	1 tours, adjectives, and demonstrative and possessive pronouns in the					

	plural nouns, adjectives,	Dative plural
	possessive and demonstrative	Sentences with the word «который», которая, которое, которые
	pronouns	The "надо, нужно + infinitive"construction
		The text " Anton Pavlovich Chekhov "(see text in the App)
		Verbs: давать/ дать, объяснять / объяснить, назначать / назначить, посылать / послать, говорить / сказать, идти – ходить к (кому?)
	Basics of	Vocabulary on the topic "Bronchitis": легкие, бронхи, дыхательные пути, сухой/влажный кашель, хрипы, мокрота, слизистая оболочка, табачный дым, назначать (назначение), возбуждать (возбудитель), дышать (дыхание), защищать (защита) etc.
	professional communication	The text "Bronchitis" (see text in the App)
		Conversational topic of the "Healthy Lifestyle" block: "Bad habits"
		Control under section 5
6	Instrumental case of plural nouns, adjectives,	Nouns, adjectives and demonstrative and possessive pronouns in the Instrumental case plural
	possessive and demonstrative pronouns	Verb groups: заниматься / заняться, встречаться / встретиться, идти — ходить, знакомиться / познакомиться, здороваться / поздороваться, прощаться / попрощаться, питаться, болеть / заболеть, лечиться Text "The city on the banks of the Northern Dvina" (see text in the App)
		Flu vocabulary: инкубационный период, инфекция, интоксикация, суставы, мышцы, озноб, слабость, потливость, вялость, осложнение, постельный режим, обильное питье, препараты (жаропонижающие, болеутоляющие, противовирусные), влажная уборка, маска и т.д., etc.
		The text " Flu " (see text in the App)
	Basics of	Colloquial topic "Care for infectious patients"
	professional communication	Control under section 6
7	Verbs of movement	Unidirectional and multidirectional verbs

		Verbs without prefixes: идти – ходить, ехать - ездить, and with prefixes:
		прийти, уйти, приехать, уехать
		The "чтобы + infinitive" construction
		The text of "V. A. Kudryavtsev "(see text in the App)
	Basics of professional communication	Vocabulary on the topic "Stomach aches" (живот, желудок, кишечник, слизистая оболочка, питание, нарушение стула, тошнота, рвота, плохой аппетит) The text "Gastritis" (see text in the App)
	Commoncus	Conversational topic of the "Healthy Lifestyle" block: "Proper nutrition"
		Control under section 7
8	Degrees of comparison of adjectives and adverbs	Comparative degree of adjectives and adverbs (больше/меньше, лучше / хуже, дальше / ближе, дороже / дешевле, старше / младше, теплее / холоднее, труднее / легче, громче / тише, реже / чаще)
		Superlative degree of adjectives (самый+ adjective)
		Text "Medical care in Russia" (see text in the App)
		Vocabulary on the topic " Allergy "(аллергия аллерген, зуд, покраснение, слезы, наследственность, иммунитет, экология, образ жизни)
	Basics of professional	Forms of the imperative mood (ешьте, не пейте, etc.)
	communication	The text "Allergy" (see text in the App)
		Conversational topic of the "Healthy Lifestyle" block: "Compliance with sanitary and hygienic standards"
		Control under section 8 9
9	Generalization of the studied material	Groups of professional vocabulary words: body parts, internal organs, symptoms, diseases, doctors, drug groups

Final control	
	Lexico-grammar test

3rd year

№	(Contents of section						
п/п							
	Repetition of the material studied in the	Entrance control					
	first year. The profession of a doctor.	- Lexico-grammatical test (Moodle).					
	Patient's medical record	Repetition of grammatical material of the 2nd					
		course:					
		- Fundamentals of professional					
		communication (medical vocabulary);					
		- Genitive plural of nouns, adjectives,					
		possessive and demonstrative pronouns.					
		- Accusative plural of nouns, adjectives,					
		possessive and demonstrative pronouns.					
		- Prepositional plural of nouns, adjectives,					
		possessive and demonstrative pronouns					
		- Dative plural of nouns, adjectives,					
		possessive and demonstrative pronouns					
		- Instrumental plural of nouns, adjectives,					
		possessive and demonstrative pronouns					
		- Verbs of movement					
		- Comparison of adjectives and adverbs					
		Control work on section No. 1.					
	First practice at a medical university	Specific pairs of verbs of different groups.					
	Grammar:	Verbs with a particle –ся.					
	Verbs.	Reflexive verbs.					
	Specific pairs of verbs.	Passive verbs.					
	Verbs with a particle –ся.	Movement verbs with different prefixes.					
	Movement verbs.	Specific pairs of verbs of movement.					
	Basics of professional communication	Label constructions "Appeal", "Ways to					
		attract attention" Medical terms Professional					
		text "First practice at a medical university"					
		(part 1)					
		Control work on section No. 2.					
	Verb forms. The verbal participle.	Word formation of verb forms (participles and					
	Participle.	participles). Participle sentence = sentence					
	Basics of professional communication	with the word "который". Exam topic					
		"Practice in the hospital".					
		Control work for section No. 3					
	Musculoskeletal system. Bones and	Short forms of participles. Examples of the					
	Muscles.	use of short participles and verbs in passive					
	Grammar: Active, passive constructs.	constructions.					
	Basics of professional communication	Label constructions "Gratitude", "Apology"					
		Medical terms Professional text					
		"Musculoskeletal system. Bones and					
L		Muscles"					

	Control work on section No. 4.
Musculoskeletal system. The structure of	Expression of tense by a noun in the
the human skeleton Grammar: Expressing	accusative case without a preposition and with
tense in simple and complex sentences	a preposition (на, за, через).
	Expression of time by a noun in the genitive
	case with a preposition (до, после, во время).
	Expression of time by nouns in the
	instrumental case with the preposition
	"перед".
	Expression of tense with nouns in the dative
	case with the preposition "по" (по
	вторникам)
Basics of professional communication	Time constructions «за до», «через
1	после».
	The adverb of time.
	Expression of time in a complex sentence.
	The use of conjunctions «до того как, после
	того как, перед тем как, как только и т.д
	Medical terms
	Professional text "Musculoskeletal system.
	The structure of the human skeleton "
Musculoskeletal system. Human skeleton.	Expression of cause in a simple sentence (из-
Posture.	за, от + сущ. в Р.п; благодаря, по + сущ. в
Grammar: Expressing cause and effect in	Д.п.).
a simple and complex sentence.	Expression of reason in a simple sentence
r · · · · · · · · · · · · · · · · · · ·	(предлоги: из-за того что, благодаря тому
Basics of professional communication	что, потому что, так как)
r	Expression of effect.
	Medical terms.
	Professional texts «Musculoskeletal system.
	Human skeleton. Posture.
Control slice of knowledge for the 5th	Doctor-patient dialogue, final test
semester	r
Musculoskeletal system. Diseases and	Expressing purpose in a simple sentence
injuries.	(предлог + сущ. в Р.п, Т.п, В.п.)
Grammar: Expressing purpose and	Expression of purpose in a complex sentence.
condition in a simple and complex	Constructions «чтобы + прош. вр.», «чтобы
sentence.	+ инф.»
	Expressing condition in a simple sentence
	(при + сущ. в П.п., в случае, при наличии,
	при отсутствии + сущ. в Р.п.)
	Expressing condition in a complex sentence
	Types of conditional relationships: real,
Basics of professional communication	potential and surreal conditions.
Danies of professional communication	potential and surreal conditions.
	Medical terms Professional text
	«Musculoskeletal system. Diseases and
	MITTUSCUTOSACICIAI SYSTEMI. DISCASES AHU

	injuries»				
Doctors of Russia. Grammar: Expressing	Expressing concession in a simple sentence				
concession in a simple and complex	(несмотря на + сущ. в В.п)				
sentence.	Expressing concession in a complex sentence (союзы: несмотря на то что, хотя)				
Basics of professional communication	Etiquette constructions "Regret, sympathy"				
	Medical terms				
	Professional texts "Doctors of Russia"				
Dative impersonal constructions	Dative case of nous, pronouns, adjectives				
	Можно, надо, нужно, нельзя + инф.				
	Word «нельзя» in different meanings				
	Д.п. + трудно, легко + инф.				
	Д.п. + безличн глаголы (осталось,				
	казалось и т.д.) + инф.				
Basics of professional communication					
	Medical terms				
	Exam topic "Doctors of Russia"				
Repetition of the material learned. Exam	Prepositional-case system				
topics "Doctors of India", "Healthy	The kind of the verb. Impersonal forms of the				
lifestyle", "Physical inactivity"	verb. Simple and complex sentence.				
	Expression of different meanings in a simple				
Basics of professional communication	and complex sentence. Formation of verbal				
	nouns.				
	Control on the topic "Medical vocabulary"				
Module control	Summing up the course. Acceptance of debts				
	on examination topics. Final control work				
	(lexical and grammatical tasks, drawing up				
	questions to the proposed text)				

4th year

No.	Name of the course	Contents of the section					
	section	Contents of the section					
	SECTION 1.1.	COMMUNICATION PRACTICE:					
	Conversation topic						
	"Diseases of the XX	1. Conversation topic ""Diseases of the XX and XXI centuries."					
	and XXI centuries."	"Smallpox". "Spanish influenza". "AIDS: the XXI century plague".					
	Fundamental systems	Lexicaltools:					
	of human organs.						
	Human skin.	Чума, испанский грипп, оспа, синдром приобретённого					
		иммунного дефицита человека,					
		умереть от / страдать от (чего? Р.п.)					
		болеть / заболеть (чем? Т.п.), заразиться (чем? Т.п.)					
		является чем; исследуется кем;					
		определяется чем; характеризуется чем;					
		предупредить = предотвратить (что? В.п.)					

2. Fundamental systems of human organs. Human skin, its structure and functions. General surveying of the skin. Working with video materials "Human skin".

Lexicaltools:

Кожный покров, наружный покров тела, кожа, потоотделение, мочевина

наружный слой / эпидермис, средний слой / дерма, внутренний слой / подкожная жировая клетчатка /гиподерма

защитная функция, терморегуляторная функция,

выделительная функция

вредное воздействие,

предохранять от (чего?), защищать от (чего?), защищать от ультрафиолетовых лучей

GRAMMAR:

Word-building structure of noun and adjective. Prepositional-case system of nouns, adjectives, pronouns in the singular and plural.

(The grammar is repeated, its studying is more profound and it's based on the texts of medical topics in this section. Thus, a functional-communicative approach in teaching grammar is implemented.)

READING: Professionally oriented texts "What is plague?"

SECTION 1.2.

Conversation topic
"Diseases of the XX
and XXI centuries."
Fundamental systems
of human organs.
Human skin.

COMMUNICATION PRACTICE:

Conversation topic "Diseases of the XX and XXI centuries." "Cardiovascular diseases". "Diabetes". Osteochondrosis. "Oncological diseases". "Obesity", "Depression".

Lexicaltools:

причины, факторы, патология,

характерный, двигательный, правильный / неправильный, вредный / полезный, опасный;

сердечно-сосудистые заболевания, малоподвижный образ жизни, инфаркт, инсульт, ишемическая болезнь сердца, сахарный диабет, переедание, сладкая пища;

остеохондроз, заболевания позвоночника, межпозвоночные диски, связки, костная ткань, мышечная ткань;

опухоль, онкологический, аллергический, доброкачественный, злокачественный;

онкологические заболевания; переедание, повышенное

давление;

сниженноенастроение, концентрациявнимания

2. Fundamental systems of human organs. Skin diseases. Working with video materials "Healthy means wealthy! Summerepidemy: scabies" (05/25/2018, 26-34 min).

Lexicaltools:

цвет кожи, окраска кожи, патологическая окраска кожи, гиперемия, покраснения на коже, влажность кожи, сухость кожи, чистые покровы;

бледная, синюшная (цианоз кожи), розовая, бронзовая, красная, землистая, желтушная / иктерическая кожа;

пятна, папулы, волдыри, пузыри, пузырьки, чешуйки, ссадины, трещины, корки, язвы.

GRAMMAR: Word-building structure of noun and adjective. Prepositional-case system of nouns, adjectives, pronouns in the singular and plural.

(The grammar is repeated, its studying is more profound and it's based on the texts of medical topics in this section. Thus, a functional-communicative approach in teaching grammar is implemented.)

READING: Professionally oriented texts: 'What should everyone know about diabetes? ","What should we know about cardiovascular diseases?"

SECTION 1.3.

Conversation topic
"Diseases of the XX
and XXI centuries."
Fundamental systems
of human organs.
Human skin.

COMMUNICATION PRACTICE:

1. Conversation topic "Diseases of the XX and XXI centuries." Revising the topic.

Lexical tools: revising the vocabulary given on the previous classes.

2. Fundamental systems of human organs. Skin diseases. Dialog "At the dermatologist's attendance".

Lexicaltools:

симптомы заболеваний кожи: зуд, высыпания, чувство жжения, чувство покалывания, шелушение кожного покрова, бессонница;

местное лечение, аэрозоли, мази, пасты, масл<u>а</u>, компрессы, пластыри, лечебные мыла.

GRAMMAR: Derivational structure of the verb. The imperative mood of verbs. Verbs in an imperative.

(The grammar is repeated, its studying is more profound and it's based on the texts of medical topics in this section. Thus, a functional-communicative approach in teaching grammar is

	T	implemented)
		implemented.)
		READING: Professionally oriented texts: What should you know about oncology?" / "What is the danger of pediculosis?"
		Control according to section 1. Lexico-grammatical test / Control work.
	2.1. Conversation	COMMUNICATION PRACTICE:
	topic "Fundamental principles of medical ethics". Fundamental systems	1.Conversation topic "Fundamental principles of medical ethics"."The profession of a doctor." "Professionalbehaviorofadoctor"
	of human organs.	Lexicaltools:
	Excretory system.	Медицинская этика, правила и нормы поведения медицинского персонала, сформулировать принципы медицинск ой этики;
		Человеколюбие, сострадание, милосердие, доброта, отзывчивость, внимательное отношение к больному;
		речь доктора, чувство такта, поднять больному настроение,
		хранить врачебную тайну, совершенствоваться в своей профессии, читать научную литературу, участвовать в форумах врачей, обмениваться опытом;
		опрятный вид, чистый халат, чистая шапочка, аккуратная сменная обувь, чистые руки, коротко остриженные ногти.
		2.Fundamental systems of human organs. Excretory system. Working with video materials: Healthy means wealthy! What you need to know about the kidneys? (05/30/2017)
		Lexicaltools:
		Выделительная система, продуктыметаболизма, углекислыйгаз, азотсодержащиевещества, аммиак, мочевина, креатинин, мочеваякислота;
		Органы выделения, почки, лёгкие, желудочно-кишечный тракт, потовые железы, слюнные и желудочные железы, поджелудочная железа, кишечные железы
		GRAMMAR:Derivational structure of the verb. Imperfective and perfective verbs.
		(The grammar is repeated, its studying is more profound and it's based on the texts of medical topics in this section. Thus, a functional-communicative approach in teaching grammar is implemented.)
		READING: Professionally oriented texts: "Medical ethics: every doctor should know about it"
	2.2. Conversation topic "Fundamental	COMMUNICATION PRACTICE:

principles of medical 1. Conversation topic "Fundamental principles of medical ethics". ethics". "The Hippocratic Oath". "Contemporary Issues of Medical Ethics" Fundamental systems of human organs. Lexicaltools: Excretory system. даватьклятвуГиппократа, древняяпрофессиональнаяклятваврача, взаимоотношения, деятельность, межличностный, обязанность, ответственность; физические и нравственные страдания, привести к физическим и нравственным страданиям пациентов; пересадка органов, донор, реципиент, эвтаназия. 2. Diseases of the excretory system. Working with video materials: Healthy means wealthy! Urolithiasis disease. 02.10.2018 / Healthy means wealthy! Urinary infections. Necessary to treat! 01.10.2018 Lexicaltools: пиелонефрит, мочекаменная болезнь почек, опухоли, уретрит, цистит воспалительный процесс, возбудитель, очаг воспаления, стафилококк, стрептококк, энтерококк, болезненное мочеиспускание обшийанализмочи GRAMMAR: Derivational structure of the verb. Imperfective and perfective verbs. (The grammar is repeated, its studying is more profound and it's based on the texts of medical topics in this section. Thus, a functional-communicative approach in teaching grammar is implemented.) READING: Professionally oriented texts: "The underlying causes of kidney disease" / "Why do people need salt?" 2.3. Conversation **COMMUNICATION PRACTICE:** topic "Fundamental 1. Conversation topic "Fundamental principles of medical ethics". principles of medical Revising the topic. ethics". Lexicaltools: revising the vocabulary given on the previous Fundamental systems classes. of human organs. 2. Fundamental systems of human organs. Excretory system. Diseases Excretory system. of the excretory system. Dialogue "At the Nephrologist's Attendance". Lexical tools: болит под рёбрами, болит под ложечкой, режет в

боку, боль отдаёт иррадиирует вправо, кожный зуд, желтушность кожи, горечь во рту, субфебрильная температура, боль резкая, острая, колющая, режущая, приступообразная.

GRAMMAR: Modal verbs.

Constructions MOЖНО/ НУЖНО/ СЛЕДУЕТ/НЕОБХОДИМО + infinitive.

(The grammar is repeated, its studying is more profound and it's based on the texts of medical topics in this section.)

READING: Professionally oriented texts "What is useful and what is bad for the kidneys" / "Why do people have different skin colors?"

Control according to section 2. Lexico-grammatical test / Control work.

5.2. Sections and types of studies

1st year

No.	Name of the course	L	S	P	CP	LBP	SBP	UW	Total
	section								hours
1	Repetition (basic			10					
	information about the								
	language obtained in the							10	20
	course "Foreign								
	language")								
2	Main course: (lexical			58					
	minimum,							58	116
	grammar topics)								
3	Speech topics			40					
	(dialogues, texts on							40	80
	everyday, educational,							40	80
	professional topics)								
				108				108	216

2nd year

№	Name of the discipline section	L	S	P	СР	LBP	S	UW	Total hours
1	Repeating the material learned in the first year Basics of professional communication			9				9	18
2	Genitive plural of nouns, adjectives, possessive pronouns, and demonstrative							9	18

	pronouns.				
	Basics of professional communication				
		9			
3	Accusative plural of nouns, adjectives,				
	possessive pronouns, and demonstrative	9		9	18
	pronouns.				-
	Basics of professional communication				
4	Prepositional plural of nouns, adjectives,				
	possessive pronouns, and demonstrative pronouns			0	10
	Basics of professional communication			9	18
	basics of professional communication				
		9			
5	Dative case of plural nouns, adjectives,				
	possessive and demonstrative pronouns			8	16
	Basics of professional communication				
		8			
6	Instrumental case of plural nouns, adjectives,				
	possessive and demonstrative pronouns			8	16
	Basics of professional communication				
		8			
7	Verbs of movement				
	Basics of professional communication			8	16
		8			
8	Degrees of comparison of adjectives and				
	adverbs			8	16
	Basics of professional communication	8			
9	Generalization of the studied material.			4	8
	Final control	4		7	U

3rd year

№ п/п	Name of the discipline section	L	S	P	СР	LBP	S	UW	Total hours
1)	Repetition of the material studied in the first year. The profession of a doctor. Patient's medical record			6				6	12
2.	First practice at a medical university Grammar: Verbs. Specific pairs of verbs. Verbs with a particle –cя. Movement verbs. Basics of professional communication			12				6	18

3.	Verb forms. The verbal	6			
	participle. Participle.				10
	Basics of professional			6	12
	communication				
4.	Musculoskeletal system.	9			
	Bones and Muscles.				
	Grammar: Active, passive			_	
	constructs.			9	18
	Basics of professional				
	communication				
5.	Musculoskeletal system.	9			
	The structure of the human				
	skeleton Grammar:				
	Expressing tense in simple				
	and complex sentences			9	18
	and complex sentences				
	Basics of professional				
	communication				
6.	Musculoskeletal system.	9			
	Human skeleton. Posture.				
	Grammar: Expressing cause				
	and effect in a simple and				10
	complex sentence.			9	18
	r				
	Basics of professional				
	communication				
7.	Control slice of knowledge	3			
	for the 5th semester			3	6
8.	Musculoskeletal system.	9			
	Diseases and injuries.				
	Grammar: Expressing				
	purpose and condition in a				
	simple and complex			9	18
	sentence.				
	Basics of professional				
	communication				
9.	Doctors of Russia.	6			
	Grammar: Expressing				
	concession in a simple and				
	complex sentence.			6	12
	Basics of professional				
	communication				
10.	Dative impersonal	6			
	constructions				
				6	12
	Basics of professional				
	communication		1 1		

11.	Repetition of the material		12			
	learned. Exam topics					
	"Doctors of India",					
	"Healthy lifestyle",				1.5	27
	"Physical inactivity"				15	27
	Basics of professional					
	communication					
12.	Module control		3		6	9

4th year

№	Name of the course section	P	UW	Total hours
1	2	4	8	9
1	Conversation topic "Diseases of the XX and XXI centuries." Fundamental systems of human organs. Human skin.	36	54	90
2	Conversation topic "Fundamental principles of medical ethics". Fundamental systems of human organs. Excretory system.	36	54	90
	TOTAL (HOURS)	72	108	180

6. List of teaching materials for the course unsupervised work of students (including the use of e-learning opportunities, distance learning technologies (Moodle))

1st year

No.	Name of		Forms of
	the course	Types of the unsupervised work	control
	section		Control
1	Repetition (basic information about the language obtained in the course "Foreign language")	Repetition and consolidation of systemic phonetic and spelling skills using: - exercises for the formation of auditory-pronunciation skills (listening and reading), including using IT: - site for students of NSMU https://russianlaunch.blogspot.com/p/phonetics.html - Talk2Russia mobile application (Phonetics section); - trainers of Russian pronunciation: http://learnrussian.rt.com/phonetics/ https://easypronunciation.com/ru/practice-russian-pronunciation-online http://www.russianforeveryone.com/Rufe/Lessons/Course1/I ntroduction/IntrUnit1/IntrUnit1.htm (IR training) Reading text with preliminary preparation using text-to-speech software (ICE Book Reader Professional)	Testing the reading technique. Vocabulary dictation. Checking written assignments in workbooks, oral questioning in the lesson. Control
		2. Repetition and consolidation of the lexical and	exercises in

		and the first of t	41 1
		grammatical minimum using IT (interactive game tasks,	the lesson.
		exercises, simulators):	Checking
		- grammar	tasks in
		https://learningapps.org/5714683	LMS
		https://wordwall.net/play/7554/255/347	Moodle.
		https://wordwall.net/play/9302/126/426	Testing.
		https://wordwall.net/play/9303/553/992	
		https://wordwall.net/play/9390/873/554	
		https://quizlet.com/561076265/match?i=3ba7pu&x=1Kqt	
		https://wordwall.net/play/9575/043/720	
		- vocabulary	
		https://wordwall.net/play/7339/901/959	
		https://wordwall.net/play/8219/686/966	
		https://quizlet.com/ru/553744506/%D0%9A%D0%B0%D0	
		%BA%D0%BE%D0%B9-	
		%D1%86%D0%B2%D0%B5%D1%82- flash-cards /? x =	
		1jqt	
		https://edu.nsmu.ru/mod/quiz/attempt.php?attempt=1064859	
		&cmid=72942	
		Mastering vocabulary and grammar:	
		Doing homework (writing exercises, reading texts on the	
		studied lexical and grammatical material).	
		Textbooks and tutorials:	
		1.Овсиенко Ю.Г. Русский язык для начинающих (для	Testing the
		говорящих на английском языке) [Текст] : [учебник]/ Ю.	reading
		Г. Овсиенко Кн. 1: Русский язык, 2019 472 с.: ил.	technique.
		2. Алексеева О.В. Рабочая тетрадь по русскому языку	Vocabulary
		как иностранному (предложно-падежная система).	dictation.
		Учебно-методическое пособие Архангельск, 2018. 152	Checking
		c.	written
		3. Маслова, О.Н. Русская грамматика [Электронный	assignments
	Main	ресурс]: методич. рек. по русскому языку для иностр.	in
	course:	обучающихся І–ІІ курсов (базовый уровень) / О. Н.	workbooks,
	(lexical	Маслова, О. В.Алексеева Архангельск: Изд-во	oral
2	minimum,		
		Северного государственного медицинского	questioning
	grammar	университета, 2019 - 80 с.	in the
	topics)	4. Орлова Л.В. Рабочая тетрадь. Основы медицинской	lesson.
		лексики (элементарный уровень)/ Л.В.Орлова –	Control
		Архангельск: Изд-во Северного государственного	exercises in
		медицинского университета, 2019 85 с.	the lesson.
		Working with information and account to	Checking
		Working with information and communication resources:	tasks in
		Interactive game tasks	LMS
		1. Cases of nouns	Moodle.
		https://wordwall.net/play/9819/124/166	Testing.
		2. Verbs of motion	
		http://www.rus-on-line.ru/Exercises/Grammar/28-	
		grammar.html	
		Perfective-Imperfective Java Exercises is a network	

	Г	Ta	Г
		linguistic trainer for verb types, for motion verbs. Website:	
		http://www.alphadictionary.com/rusgrammar/java.html	
		Syntax https://wordwall.net/play/9575/043/720	
		https://wordwall.net/play/9575/043/720	
		https://quizlet.com/561076265/match?i=3ba7pu&x=1Kqt	
		Video lessons	
		https://youtu.be/Pf6MSjnFTO4 -propositional	
		https://youtu.be/qdknk8kJT3Q - genitive	
		https://youtu.be/CKzDsa-vCgI - instrumental case	
		https://youtu.be/EVIY-3frpAw - instrumental	
		https://youtu.be/xPCSeC_jeQI - accusative case	
		https://youtu.be/3u3t3C0bd4U - nominative	
		https://youtu.be/d1_cYOz4QuI - dative case	
		Control works and tests	
		https://edu.nsmu.ru/mod/quiz/attempt.php?attempt=1064859	
		&cmid=72942	
		Mastering vocabulary and grammar:	
		Doing homework (writing exercises, reading texts on the	
		studied lexical and grammatical material).	
		Textbooks and tutorials:	
		1.Овсиенко Ю.Г. Русский язык для начинающих (для	Role-
		говорящих на английском языке) [Текст]: [учебник]/ Ю.	playing
		Г. Овсиенко Кн. 1: Русский язык, 2016 472 с.: ил.	games with
		2. Алексеева О.В. Рабочая тетрадь по русскому языку	various
		как иностранному (предложно-падежная система).	types of
		Учебно-методическое пособие Архангельск, 2018. 152	communicat
		c.	ion tasks.
		3. Орлова Л.В. Рабочая тетрадь. Основы медицинской	Conversatio
	Speech	лексики (элементарный уровень)/ Л.В.Орлова –	n in the
	topics	Архангельск: Изд-во Северного государственного	lesson.
	(dialogues,	медицинского университета, 2016 85 с.	Individual
	texts on		survey.
3	everyday,	Doing homework: working with speech topics (dialogues,	Online
	educational	texts for everyday, educational, professional).	conference
	,	Textbooks and tutorials:	with native
	professiona	1. Ovsienko Yu.G. Russian for beginners (for those who	speakers
	1 topics)	speak English) [Text]: [textbook] / Yu. G. Ovsienko Kn. 1:	(conversatio
		Russian language, 2016 472 p .: ill.	n on the
		2. Alekseeva O.V. Workbook on Russian as a foreign	topics
		language (prepositional-case system). Study guide	studied:
		Arkhangelsk, 2018.152 p.	getting into
		3. Orlova L.V. Workbook. Fundamentals of medical	real
		vocabulary (elementary level) / L.V. Orlova - Arkhangelsk:	communicat
		Publishing house of the Northern State Medical University,	ion).
		2016 85 p.	1011).
		Working with information and communication resources:	
		http://lrwi.ru/?p=1 - "Network text library". Network	
		linguistic trainer (formation of reading skills)	
		http://www.lrwi.ru/?p=1&t=29 - site of RCT enthusiasts	

(materials on topics)
and other training videos (at the teacher's choice)
on the channels RikiStudy, RussianLessons.Net
(https://www.youtube.com/channel/UCq1b1x1nZbV-
rmZDb3XOB2g),
(themes my day, my family, etc.)
Learn Russian with RussianPod101.com
https://www.youtube.com/channel/UCUg_JDaHFAPEiFGD
MddoIzA). THEMES
LMS Moodle:
https://edu.nsmu.ru/mod/quiz/attempt.php?attempt=1064859
&cmid=72942

2nd year

- Маслова, О.Н. Русская грамматика [Электронный ресурс]: методич. рек. по русскому языку для иностр. обучающихся I–II курсов (базовый уровень) / О. Н. Маслова, О. В. Алексеева. Архангельск : Изд-во Северного государственного медицинского университета, 2019 80 с. <a href="http://nb.nsmu.ru/cgi-bin/irbis64r-11/cgiirbis-64-exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S2-1STN=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S2-1P02=1&S21P03=I=&S21STR=elb/M%2031-788369
- 2. Маслова О.Н., Алексеева О.В. Справочник медицинских терминов для обучающихся 2 курса международного факультета врача общей практики Северного медицинского государственного университета. Архангельск, 2020
- 3. 2 course Russian Language Russian Language as foreign // https://edu.nsmu.ru/course/view.php?id=1391
- 4. Russian Language lessons (Learn Russian for Free) // http://www.russianlessons.net
- 5. Русский глагол: http://www.webmetod.narod.ru/ddd/Veb1.htm

No	Name of the discipline	Types of independent work	Control forms
	section		
1	Repeat the material you	Working with the Reference Book of	Identification of the
	learned in your first year.	medical terms (Maslova O. N.,	level of
	Basics of professional	Alekseeva O. V. Reference book of	understanding of the
	communication	medical terms)	material in practical
			lesson
2	Genitive plural of nouns,	Make a table "Names of internal	Vocabulary dictation
	adjectives, possessive	organs of a human" in Russian and	and oral response in
	pronouns, and	English	practical lesson
	demonstrative pronouns.		
	Basics of professional		
	communication		
3	Accusative plural of nouns,	Learn vocabulary on the topic " Man	Listening to a
	adjectives, possessive	and his body.	prepared monologue
	pronouns, and	Objective indicators of the patient's	
	demonstrative pronouns.	physical condition "	
	Basics of professional		
	communication	(Maslova O. N., Alekseeva O. V.	
		Handbook of medical terms)	

4	Prepositional plural of	Prepare a presentation about one of	Active participation
_	nouns, adjectives,	the named NSMU classrooms (N.	in the practical
	possessive pronouns, and	Amosov Auditorium, Lomonosov	lesson
	demonstrative pronouns	Auditorium, Bychikhin Auditorium,	1000011
	promount of promount	Kudryavtsev Auditorium)	
5	Dative case of plural nouns,	Prepare a message on one of the	Active participation
	adjectives, possessive and	topics "Why is smoking dangerous?",	in the practical
	demonstrative pronouns	" What is the danger of alcohol	lesson
	•	consumption?", " What causes	
		overeating?"	
6	Instrumental case of plural	Prepare a message about your	Active participation
	nouns, adjectives,	favorite place in Arkhangelsk.	in the practical
	possessive and		lesson
	demonstrative pronouns	Presentation	
7	Verbs of movement	Using verbs of movement, compose a	Listening to an audio
		text on the topic "A trip home during	response
		the summer holidays"	
8	Degrees of comparison of	Preparation for the colloquial topic	Active participation
	adjectives and adverbs	"Components of the concept of	in the practical
		healthy lifestyle"	lesson
9	Generalization of the	Preparation of lexical material based	Verification of
	studied material	on specified models	completed materials
		Name of the disease -ит	
		Doctor's name-лог	
		Department name-ия	
		Name of medicines	
		-ин	

3rd year

- 1) Маслова, О.Н., Полуэктова Т.Д. «Свидание с аутентичным текстом» / Учебнометодическое пособие
- по русскому языку как иностранному для студентов 3-4 курсов (English medium) Архангельск, 2020
- 2) Маслова О.Н., Алексеева О.В. Справочник медицинских терминов для обучающихся 2 курса международного факультета врача общей практики Северного медицинского государственного университета. Архангельск, 2020
- 3) 3 course Russian Language Russian Language as foreign // https://edu.nsmu.ru/course/view.php?id=1137¬ifyeditingon=1
- 4) Russian Language lessons (Learn Russian for Free) // http://www.russianlessons.net
- 5) Русский глагол: http://www.webmetod.narod.ru/ddd/Veb1.htm

№	Наименование раздела	Виды самостоятельной	Формы контроля
п/п	дисциплины	работы	
1.	Repetition of the material	Working with tables in the	Revealing the level of
	studied in the first year. The	electronic course Moodle and a	understanding of the
	profession of a doctor.	reference book of medical terms	material in a practical
	Patient's medical record	(Маслова О.Н., Алексеева О.В.	lesson
		Справочник медицинских	
		терминов)	

2.	First practice at a medical university Grammar: Verbs. Specific pairs of verbs. Verbs with a particle –cя. Movement verbs. Basics of professional communication	Describe your daily routine with verbs, paying special attention to the diagram of your path from the hostel to different buildings of the university	Oral answer in a practical lesson
3.	Verb forms. The verbal participle. Participle. Basics of professional communication	Memorize the exam topic "Practice in the hospital"	Listening to a prepared monologue
4.	Musculoskeletal system. Bones and Muscles. Grammar: Active, passive constructs. Basics of professional communication	Learn the medical terms on the topic	Vocabulary dictation and oral answer in a practical lesson
5.	Musculoskeletal system. The structure of the human skeleton Grammar: Expressing tense in simple and complex sentences Basics of professional communication	Learn the medical terms	Checking crosswords, classmates filling out each other's crosswords.
6.	Musculoskeletal system. Human skeleton. Posture. Grammar: Expressing cause and effect in a simple and complex sentence. Basics of professional communication	Using conjunctions that express cause and effect in the proposal, make a dialogue on the topic "Doctor-patient"	Activity of participation in the practical lesson
7.	Control slice of knowledge for the 5th semester	Prepare for the test on grammatical and lexical material of the 5th semester	Intermediate testing
8.	Musculoskeletal system. Diseases and injuries. Grammar: Expressing purpose and condition in a simple and complex sentence. Basics of professional communication	Preparation of lexical material according to the given models 1. Name of the disease / injury 2. Phrases of the patient 3. Phrases of the doctor 4. Name of drugs	Checking the issued materials
9.	Doctors of Russia. Grammar: Expressing	Draw up the table "Musculoskeletal system" in	Vocabulary dictation and oral answer in a practical

	concession in a simple and complex sentence.	Russian and English	lesson
	Basics of professional communication		
10.	Dative impersonal constructions	Memorize the examination topic "Doctors of Russia"	Listening to a prepared monologue
	Basics of professional communication		
11.	Repetition of the material learned. Exam topics "Doctors of India", "Healthy lifestyle", "Physical inactivity"	Prepare a report on the topic "My idol. Great Indian doctor" Memorize the exam topics "Doctors of India", "Healthy lifestyle", "Physical inactivity"	Presentation to the class. Listening to prepared monologues
	Basics of professional communication		
12.	Module control	Prepare for the final test for the 3rd year	Acceptance of debts on exam topics. Final control work (lexical and grammatical tasks, drawing up questions to the proposed text)

4th year

N₂	Name of the	Types of unsupervised work	Forms of control
	section		
1	SECTION 1.1.	Input control. Revising of the	Lexico-
	Conversation topic	vocabulary and grammar for the	grammatical test
	"Diseases of the XX	third year of study.	in the Moodle
	and XXI centuries."		system
	Fundamental		
	systems of human		
	organs. Human		
	skin.		
2	SECTION 1.1.	Working with video materials	Checking the
	Conversation topic	"Healthy means wealthy!	exercises in the
	"Diseases of the XX	Summer epidemy: scabies	Moodle system
	and XXI centuries."	"(05/25/2018, 26-34 min).	
	Fundamental		
	systems of human		
	organs. Human		
	skin.		
3	SECTION 1.3.	Reading: professionally oriented	Checking pre-text

	Conversation topic "Diseases of the XX and XXI centuries." Fundamental systems of human organs. Human skin.	texts "What is plague?" 1. Working with pre-text exercises. Working with vocabulary. 2. Reading and translating the text. 3. Working with post-text exercises.	and post-text exercises in the Moodle system
4	SECTION 1.3. Conversation topic "Diseases of the XX and XXI centuries." Fundamental systems of human organs. Human skin.	Drawing up the topic "Diseases of the XX and XXI centuries" and preparing for oral check-out test based on it.	Individual test on the topic "Diseases of the XX and XXI centuries".
5	SECTION 1.3. Conversation topic "Diseases of the XX and XXI centuries." Fundamental systems of human organs. Human skin.	Revising the section 1. Lexicogrammatical test.	Lexico- grammatical test in the Moodle system
6	SECTION 2.1. Conversation topic "Fundamental principles of medical ethics". Fundamental systems of human organs. Excretory system	Fundamental systems of human organs. Excretory system. Working with video materials: Healthy means wealthy! What you need to know about the kidneys? (05/30/2017)	Checking the exercises in the Moodle system
7	SECTION 2.2. Conversation topic "Fundamental principles of medical ethics". Fundamental systems of human organs. Excretory system	Reading: professionally oriented texts "What is useful and what is bad for the kidneys" / "Why do people have different skin colors?" 1. Working with pre-text exercises. Working with vocabulary. 2. Reading and translating the text. 3. Working with post-text exercises.	Checking pre-text and post-text exercises in the Moodle system

8	SECTION 2.3. Conversation topic "Fundamental principles of medical ethics". Fundamental systems of human organs. Excretory system	Drawing up the topic " Fundamental principles of medical ethics" and preparing for oral check-out test based on it.	Individual test on the topic "Diseases of the XX and XXI centuries".
9	SECTION 2.3. Conversation topic "Fundamental principles of medical ethics". Fundamental systems of human organs. Excretory system	Revising the section 2. Lexicogrammatical test.	Lexico- grammatical test in the Moodle system

7. Forms of control

1st year

- 7.1. Current forms of control
- oral (express-survey in a practical lesson, checking knowledge of thematic vocabulary, telling the text according to the plan, reciting the text by heart, restoring the text using key words, making sentences according to given schemes, drawing up a dialogue).
 - written (checking written homework assignments, tests, vocabulary dictations).
 - 7.2. Forms of the interim assessment (pass/fail test, examination, term paper) Stages of the interim assessment

Stages of examination (pass/fail test)

Stage 1 - a series of tests on the completion of lexical and grammatical topics (performance of oral and written assignments on the LMS Moodle).

Stage 2 - the final test (test) in vocabulary and grammar (on the LMS Moodle).

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

Questions for a pass/fail test and an examination, a theme list of test collections and situational problems are shown at the Appendix No 4 of the syllabus of the course (module) 'Set of the evaluation tools for the current control and interim assessment of students'.

2nd and 3rd year

- 7.1. Forms of current control
- oral (interview, speech, presentations)
- written (tests, test papers).
- 7.2. Forms of intermediate certification-none

4th vear

7.1. Current forms of control

- oral (an express checking-out test in a practical lesson, checking the knowledge of thematic vocabulary, retelling the text according to the plan, reciting the text by heart, restoring the text using key words, making sentencesusing the schemes given, drawing up a dialogue, making an interview, report, presentation)
 - written (test, training exercises, module test, word quiz, essay, lecture notes).

A theme list of abstracts, reports, essays, review and term papers, test collections and situational problems are shown at the Appendix No 4 of the syllabus 'Set of the evaluation tools'.

7.2. Interim assessment

Stage 1 - lexical and grammatical test.

Stage 2 - conversation topic.

Stage 3 - reading and translating the text. Discussing the text.

8. Library and information materials of the course

1st year

8.1. Compulsory literature

- 1. Дорога в Россию [Текст] : учеб. рус. яз. : (элементар. уровень)/ В. Е. Антонова [и др.] [Кн.] 1. 10-е изд.: Златоуст: ЦМО МГУ, 2013. 341, [1] с.: илл.
- 2. Овсиенко Ю.Г. Русский язык для начинающих (для говорящих на английском языке) [Текст] : [учебник]/ Ю. Г. Овсиенко Кн. 1: Русский язык, 2016. 472 с.: ил.
- 3. Алексеева О.В. Рабочая тетрадь по русскому языку как иностранному (предложно-падежная система). Учебно-методическое пособие. Архангельск, 2018. 152 с.
- 4. Маслова, О.Н. Русская грамматика [Электронный ресурс] : методич. рек. по русскому языку для иностр. обучающихся I–II курсов (базовый уровень) / О. Н. Маслова, О.
- В.Алексеева. Архангельск: Изд-во Северного государственного медицинского университета, 2019 80 с. http://nb.nsmu.ru/cgi-
- bin/irbis64r 11/cgiirbis 64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S21STN= 1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=1&S21P 03=I=&S21STR=elb/M%2031-788369
- 5. Орлова Л.В. Рабочая тетрадь. Основы медицинской лексики (элементарный уровень)/ Л.В.Орлова Архангельск: Изд-во Северного государственного медицинского университета, 2019. 85 с.

8.2. Supplementary literature

1. Русский язык как иностранный: элементарный уровень: учебное пособие / Р.Р. Сабитова и др. – Казань, 2018. – 168 с.

- 2. Русский язык как иностранный: элементарный уровень: учебное пособие / Н.Ф. Башарова и др. Казань, 2017.
- 3. Методические рекомендации по русскому языку как иностранному для студентов I II курсов [Текст] /О. Н. Маслова; Север. гос. мед. ун-т. Каф. рус. яз. как иностр. Архангельск: [б. и.], 2014. 37 с.
- 4. Миллер Л.В. Жили-были... 12 уроков русского языка. Базовый уровень [Текст]: учебник/ Л. В. Миллер, Л. В. Политова. -6-е изд.. -Санкт-Петербург: Златоуст, 2013. 197 с.
- 5. Маслова О.Н. Методические рекомендации по русскому языку как иностранному (2-йсертификационный уровень. Профессиональный модуль) [Электронный ресурс] :методический материал / О. Н. Маслова. Архангельск : Северный государственный медицинский университет, 2012 60 с. URL: <a href="http://nb.nsmu.ru/cgi-bin/irbis64r_11/cgiirbis_64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S21STN=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=1&S21P03=I=&S21STR=elb/M%2031-343370

2nd year

8.1. Compulsory literature

Овсиенко Ю.Г. Русский язык для начинающих. – М., 2016.

Маслова, О.Н. Русская грамматика [Электронный ресурс]: методич. рек. по русскому языку для иностр. обучающихся І–ІІ курсов (базовый уровень) / О. Н. Маслова, О. В. Алексеева. - Архангельск: Изд-во Северного государственного медицинского университета, 2019. - 80 с.

Русский язык как иностранный: базовый уровень: учебное пособие. / Н.Ф. Башарова и др. – Казань, 2017.

Сиротина Т.Б., Русский язык как иностранный. Научный стиль речи: практикум для студентов-иностранцев подготовительных факультетов вузов / Т.Б. Сиротина - М.: ФЛИНТА, 2013. - 64 с. https://www.studentlibrary.ru/cgi-bin/mb4x

8.2. Supplementary literature

- 1. Маслова О.Н., Алексеева О.В. Справочник медицинских терминов для обучающихся 2 курса международного факультета врача общей практики Северного медицинского государственного университета. Архангельск, 2020
- 2. Шустикова Т.В., Русский язык как иностранный. Русские глаголы. Формы и контекстное употребление / Шустикова Т.В. М. : ФЛИНТА, 2017. 394 с. https://www.studentlibrary.ru/book/ISBN9785893494341.html?SSr=2701343e3b1009cc31b053 3o.maslova16

3rd year

8.1. Compulsory literature

- 1) Ю.Г. Овсиенко Русский язык: Учебник. Книга 2. Средний этап обучения. -2-е изд. М.: «Рус. яз.». Курсы, 2013. 248 с.
- 2) Маслова О.Н., Верюжская А.Б. Практические учебные материалы по русскому языку как иностранному для студентов 3 курса (English Medium). Архангельск, СГМУ, 2014.
- 3) Маслова, О.Н., Полуэктова Т.Д. «Свидание с аутентичным текстом» / Учебнометодическое пособие по русскому языку как иностранному для студентов 3-4 курсов (English medium) Архангельск, 2020

- 4) Русский язык как иностранный: базовый уровень: учебное пособие. / Н.Ф. Башарова и др. Казань, 2017.
- 5) Сиротина Т.Б., Русский язык как иностранный. Научный стиль речи: практикум для студентов-иностранцев подготовительных факультетов вузов / Т.Б. Сиротина М.: ФЛИНТА, 2013. 64 с. https://www.studentlibrary.ru/cgi-bin/mb4x

8.2. Supplementary literature

- 1) Маслова О.Н., Алексеева О.В. Справочник медицинских терминов для обучающихся 2 курса международного факультета врача общей практики Северного медицинского государственного университета. Архангельск, 2020
- 2) Шустикова Т.В., Русский язык как иностранный. Русские глаголы. Формы и контекстное употребление / Шустикова Т.В. М. : ФЛИНТА, 2017. 394 с. https://www.studentlibrary.ru/book/ISBN9785893494341.html?SSr=2701343e3b1009cc3 1b0533o.maslova16
- 3) Антонова В.Е. Дорога в Россию: учебник русского языка (базовый уровень). 6-е издание. М.: ЦМО МГУ; С-Пб: Златоуст, 2012. 256 с.
- 4) Антонова В. Е.. Дорога в Россию [Текст] : учеб. рус. яз. : (базовый уровень)/ В. Е. Антонова, М. М. Нахабина, А. А. Толстых [Кн.] 2. 7-е изд.: Златоуст: ЦМО МГУ, 2013. 256 с.: ил.3.

4th year

8.1. Compulsory literature

- 1. Куриленко В.Б., Русский язык для будущих врачей. MedicalRussian (I сертификационный уровень владения РКИ в учебной и социально-профессиональной макросферах) / Куриленко В.Б. М. : ФЛИНТА, 2017. 133 с. (Русский язык как иностранный) Текст : электронный // ЭБС "Консультант студента": [сайт]. URL :https://www.studentlibrary.ru/book/ISBN9785976528161.html
- 2. Русский язык как иностранный: лексика (продвинутый уровень) : учебнометодическое пособие / Л. К. Гатауллина, Р. Р. Сабитова; Минобрнауки России, Казан. нац. исслед. технол. ун-т. Казань : Изд-во КНИТУ, 2018. 96 с. URL : https://www.studentlibrary.ru/book/ISBN9785788223940.html

8.2. Supplementary literature

- 1. Вишняков С.А., Русский язык как иностранный / С.А. Вишняков М. : ФЛИНТА, 2016. 240 с. Текст : электронный // ЭБС "Консультант студента" : [сайт]. URL : https://www.studentlibrary.ru/book/ISBN9785893496390.html
- 2. Одинцова И.В., Русский язык как иностранный. Он и она / Одинцова И.В. М. : ФЛИНТА, 2017. 160 с. Текст : электронный // ЭБС "Консультант студента" : [сайт].
 - URL : https://www.studentlibrary.ru/book/ISBN9785893492705.html
- 3. Антонова В. Е.. Дорога в Россию [Текст] : учеб. рус. яз. : (базовый уровень)/ В. Е. Антонова, М. М. Нахабина, А. А. Толстых[Кн.] 2. 7-е изд.: Златоуст: ЦМО МГУ, 2013. 256 с.: ил.3.
- 4. Антонова В. Е., Нахабина М. М., Толстых А. А. Дорога в Россию: учебник русского языка (первый уровень I): в 2 т. Т.П. 3-е изд. СПб.: Златоуст, 2014.
- 5. Акишина М.А. Обучение синтаксису русского языка (Практическая часть) [Текст] : метод. рек. для иностр. студентов 2 курса EnglishMedium/ М.А. Акишина, А.Б. Верюжская; Сев. гос. мед. ун-т. Каф. рус. языка как иностр. Архангельск : СГМУ, 2011. 19, [1] с.

- 6. Верюжская А.Б. Способы выражения субъекта и предиката [Текст]/ А. Б. Верюжская. -Архангельск: Изд-во СГМУ, 2011. 24 с., Б.ц
- 7. Маслова О.Н. Методические рекомендации по русскому языку как иностранному (2-й сертификационный уровень. Профессиональный модуль) [Электронный ресурс]: методический материал / О. Н. Маслова. Архангельск : Северный государственный медицинский университет, 2012 60 с. URL:http://nb.nsmu.ru/cgibin/irbis64r_11/cgiirbis_64.exeLNG=&Z21ID=&I21DBN=EL IB&P21DBN=ELIB&S21STN=1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21C NR=20&S21P01=0&S21P02=1&S21P03=I=&S21STR=elb/M%2031-343370
- 8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

1st year

No	Resources	URL address	Resource Annotation
	Resources for learning curri	culum (language theor	y) and practice exercises
1	Electronic library of	http://www.ns	The resource contains
	NSMU	mu.ru/lib/	electronic versions of textbooks
			on Russian as a foreign
			language from the main list of
			literature.
2	Time to speak Russian	https://www.irlc.m	The site contains a variety of
		<pre>su.ru/irlc_projects/s</pre>	materials (lessons, grammar
		<u>peak-</u>	reference book, tests,
		russian/time_new/	dictionaries, etc.). Convenient
			interface, good structure of the
			course.
3	Lean Russian step by step	https://learnrussia	The site provides lessons on all
		nstepbystep.com	grammatical topics necessary
			for an elementary level, speech
			models and vocabulary tests are
			given in a separate section.
4	Everyday Russian	https://everydayr	The site contains educational
_		ussianlanguage.c	materials (lessons with
		om	explanations of grammar, tasks for
			mastering vocabulary and
			grammar).
5	Russian for everyone	http://www.russian	The site contains educational
_		foreveryone.com	materials, including an
			introductory phonetic course, as
			well as thematic lessons.
6	Quizlet	https://quizlet.	A resource containing a variety
_		com	of flashcards for learning
			educational material as well as
			games.
	Resources for	training exercises and	
		<i>C</i>	U

Learningapps	https://learnin	A site containing exercise
	gapps.org	templates (for grading, multiple
		choice tests, etc.). Convenient
		for organizing students'
		independent work (memorizing
		language units). One of the
		ways to activate the
		mechanisms of memorizing
		new material with the help of
		motor and visual mechanisms.
Wordwall	https://wordwa	A site containing templates for
	<u>ll.net</u>	various tasks, including
		quizzes, word games,
		crosswords, which can be used
		both interactively and in print.
Quizlet	https://quizlet.	A resource containing a variety
	<u>com</u>	of flashcards for learning
		educational material as well as
		games.

2nd year

№	Resource name	URL address	Abstract of the resource
1	Russian for everybody (Русский язык для всех)	http://www.russianforeveryone.com ://www.russianforeveryone.com/	Prepositional -singular system, verb conjugation
2	Materials on Russian as a foreign language by Prof. T.Beyer (Middlebury College)	http://community.middlebury.edu/~ beyer/mapryal/	Interactive materials on Russian as a foreign language. Prepositional- case system of the Russian language in the singular. Word formation. Syntax.
3	2 course Russian Language Russian Language as foreign	https://edu.nsmu.ru/course/view.php?id=1391	System of classes in the program of the module of the discipline "Russian language" 2nd year

3rd year

№	Resource name	URL address	Abstract of the resource
1	Russian for everybody	http://www.russ	Prepositional-case system in the

	(Русский язык для всех)	ianforeveryone.	singular, conjugation of verbs
2	Материалы по русскому языку как иностранному проф. Т.Байера (Middlebury College)	http://community.mi ddlebury.edu/~beyer /mapryal/	Interactive materials on Russian as a foreign language. Prepositional-case system of the Russian language in the singular. Word formation. Syntax. Conjunctions.
3	3 course Russian Language Russian Language as foreign	https://edu.nsm u.ru/course/vie w.php?id=1137	The system of classes according to the program of the module of the discipline "Russian language" 3 course
4	Портал по русскому языку как иностранному "RussNet" (на английском языке).	http://www.russnet.o rg	Portal on Russian as a foreign language, making it easier to master the material of the lessons
5	Russian Studies Department, Bucknell University (на английском языке)	http://www.departme nts.bucknell.edu/russ ian	resources for learners of Russian language and culture of Russia
6	Медицинский портал medportal.ru.	http://medportal.ru/ mednovosti/	
7	MedDaily – «МедДэйли»	http://www.meddaily .ru/	A site giving information about news in medicine.
8	Новости из России – дистанционный курс русского языка как иностранного для продвинутого уровня (Центр международного образования МГУ).	http://www.iec.ru	Distance course for students who show special success in learning Russian and who want to work with additional material
9	Russian Web Tutor	http://www.auburn.e du/~mitrege/RWT	Interactive materials on Russian as a foreign language

4th year

- 1. Study course of Russian as a foreign language (Pushkin institute)http://ac.pushkininstitute.ru/index.php
- 2. Webportal "Образование на русском" https://pushkininstitute.ru/
- 3. Webportal "Образование на русском" B1 level. https://pushkininstitute.ru/certified1
- 4. Russian for free (website): texts, lexic, videos, dialogues etc.): http://www.russianforfree.com/
- 5. Educational portal, which presents various types of online learning resources in Russian as a foreign language for beginner, intermediate and advanced levels. http://masterrussian.com/

- 6. О.Э. Чубарова. Сетевая текстотека Центра международного образования МГУ имени М.В. Ломоносова. Все уровни ТРКИ. https://www.irlc.msu.ru/irlc_projects/texts/
- 7. RussianWebTutor (Russian as a foreign language: interactive materials). http://www.auburn.edu/~mitrege/RWT
- 8. Materials for studying Russian as a foreign language by T. Bayer (Middlebury College). http://community.middlebury.edu/~beyer/mapryal/
- 9. The official site of the TV program "Жить здорово". https://www.zdorovieinfo.ru/zhitzdorovo/home/
- 10. The official site of the TV program "Осамомглавном". http://osglavnom.ru/novosti/o-samom-glavnom-vypusk-2581-ot-24-sentyabrya-2020.html
- 11. A. L. Myasnikov's official website "Доктор Мясников". https://drmyasnikov.ru/

8.4. Implementation of e-learning (EL), the use of distance learning technologies (DLT)

1st year

No	Platform of EL DLT	Name of the e-course,	E-course implementation
		authors, URL address	model
1	MOODLE	1 course Foreign	depending on the
	(with the use of video	language Russian	conditions of study:
	lessons in ZOOM with	Language as foreign	(1) blended learning + EC
	the use of electronic	(Ph.D., associate	
	boards MIRO)	professor of NSMU	(2) blended learning + EC
		O.V. Alekseeva)	
		https://edu.nsmu.ru/	
		course/view.php?id	
		=1394	

2nd year

No	The EE and	Name of the e-course, authors, URL	Implementation
	DLT platform		model of the
			electronic course
	Moodle	2 course Russian Language Russian	mixed training
	Zoom	language as foreign	+ <i>EC</i> ,
		https://edu.nsmu.ru/course/view.php://edu.	
		nsmu.ru/course/view.php?id=1391	

3rd year

No	The EE and DLT platform	Name of the e-course, authors,	Implementation model
		URL	of the electronic
			course
1	Moodle	3 course Russian Language	mixed training
		Russian language as	+ <i>EC</i> ,
		foreign, Полуэктова	
		Татьяна Дмитриевна,	

	https://edu.nsmu.ru/course/	
Zoom	view.php?id=1137	

8.5. The list of the software and information & reference systems

The following software is used in the educational process by students and professors: **operating system-**MS Windows Vista Starter, MS Windows Prof 7 Upgr; **office suite-**MS Office 2007; other **software -** 7-zip, AdobeReader, Kaspersky Endpoint Security

9. Material and technical facilities necessary for the educational process*

No	Name of the study room	Location of the study	List of the main equipment of
		room	the study room
	classrooms for seminar-	NSMU	each auditorium has 15-
	type classes	Troitsky Ave., 51,	20 seats, double tables, a
	№ 1513	building 1,	board, stands.
	1514	5th floor	Bookcases and / or
	1515		shelves: No. 1513, 1514,
	1515 a		1515a, 1516, 1516a, 1521
	1516		Special equipment:
	1516 a		No. 1513 - TV, laptop
	1521		No. 1516 - TV, laptop
			No. 1516a - screen,
	1521 a		projector