

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 **Public health and health care, health economics**

Field of training **31.05.01 General Medicine**

Year (s) of study / term (s) **4,5/8,9**

Form of the interim assessment **Exam**

Department **of public health, health care and social work**

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

Approved at the department meeting

Minutes No.

June 15th 2021

Head of the department:



E. A. Mordovsky

Author and compiler:

Associated Professor Postoev V.A.

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 (FSSES) for higher education in the field of 31.05.01 «General medicine».

The discipline is related to the mandatory part of the curriculum

The discipline is related to prior subjects of the curriculum: basics of research in medicine, project management in health care.

The discipline is related to subsequent subjects of the curriculum: health promotion

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

2. Goal and tasks of the mastering of the discipline

The goal of the discipline: to prepare students for the implementation of professional activities in the field of health care organization.

Objectives of the course:

- Formation of knowledge in implementation of professional activities in the field of population health for the purpose of its maintenance, strengthening and recovery, health economy, marketing, planning, and financing of management, innovative processes in public health services, legal and ethical aspects of medical activity
- Formation of the skills in organization of medical prevention
- Formation of ability to perform analysis about the population health and activity treatment-and-prevention and sanitary-and-prevention institutions for the offer of actions for improvement of quality and efficiency of the medical and prevention aid

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
UC-10 Able to make informed economic decisions in various areas of life	ID-10.1. Uses basic economic knowledge to solve problems in all areas of life ID-10.2. Justifies the adoption of economic decisions using factors of economic planning and analysis to achieve the goals
GPC-2. Able to conduct and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population	ID-2.1. Able to conduct and monitor the effectiveness of preventive measures, the compliance to a healthy lifestyle and sanitary and hygienic education of the population ID-2.2. Implements the methods of group and individual prevention, develops and implements programs for the a healthy lifestyle formation, including programs aimed to reduce alcohol and tobacco consumption, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances. ID-2.3. Organizes and conducts immunoprophylaxis of infectious diseases in the adult population in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care. ID-2.4. Has the skills to assess the effectiveness of preventive work with patients.
GPC-9. Able to implement the principles of quality management in professional activities	ID-9.1. Knows the basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities. ID-9.2. Able to analyze the quality of medical care; ensure internal quality control and safety of medical activities; organize the work and monitor the performance of official duties of the medical personnel at their disposal. ID-9.3. Analyzes and critically evaluates the quality of professional activity according to the given indicators.
GPC-11. Able to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	ID-11.1. Able to search and select scientific, legal, organizational and managerial documentation in accordance with the specified conditions, their analysis and application to solve professional problems. ID-11.2. Uses the methods of evidence-based medicine in professional decision making.

	ID-11.3. Prepares information and analytical materials, including for public presentation of the results of scientific work (report, theses, articles).
PC-1. Ability and willingness to conduct public health and hygiene education, educate patients and medical workers in order to prevent the occurrence (or) spread of diseases, their early diagnosis, identification of the causes and conditions for their occurrence and development	ID-1.1. Able 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 improving the level of somatic health. ID-1.2. He owns the methods and forms of organizing communication, techniques and methods of attracting the population to training in hygiene measures of a health-improving nature. ID-1.3. Carries out an analysis of the measures taken for sanitary and hygienic education among the population. ID-1.4. Possesses the skills to carry out sanitary and anti-epidemic measures in the event of a focus of infection. ID-1.5. Able to determine medical indications for the introduction of restrictive measures (quarantine) and indications for referral to a specialist doctor.
PC-9. Ability and readiness to maintain medical records and organize the activities of nursing staff at the disposal	ID-1. Able to analyze data from official statistical reporting, including forms of federal and sectoral statistical observation, draw up a work plan and report on their work ID-2. Works with personal data of patients and information constituting a medical secret ID-3. Conducts analysis of medical and statistical indicators of morbidity, disability and mortality to assess the health of the population ID-4. Fills out medical documentation, including in electronic form, controls the quality of its maintenance ID-5. Supervises the performance of duties by the district nurse and other medical workers at the disposal ID-6. Uses in his work information systems in the field of healthcare and the information and telecommunication network "Internet"
PC-10. Ability and willingness to participate in assessing the quality of medical care using basic medical and statistical indicators	ID-1. Able to calculate and analyze indicators characterizing the activities of a medical organization, and indicators of public health ID-2. Develops and evaluates indicators of internal quality control and safety of medical activities

*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 work:

Total workload of the course is 6 credits.

Type of the academic work	Total hours	Term	
		8	9
Students' contact work with the teacher (total)	92,3	52	40,3
Including:			
Lectures (L)	30	16	14
Seminars (Sem.)			
Practical classes (PC)	60	36	24
Clinical practicals (CP)			
Laboratory-based practicals (LBP)			
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	56	34
Examination control (EC)	33,7		33,7
Total discipline workload	216/6	108	108

5. Course content:

5.1. Content of the course sections

No	Name of the course section	Content of the section
1	2	3
1.	Bases of medical statistics and epidemiology for public health practice. Statistical method in public health	Methods of statistical analysis of public health. Graphic presentation of statistical values. Measures of central tendency. Methods of standardization. Assessment of the reliability of the research results. Non-parametric methods Types of study. Observational and experimental studies. Validity. Potential errors in epidemiological studies. Causation in epidemiology. Introduction to Evidence-based medicine.
2	Public health and its factors. Health promotion. Modern problems of the prevention.	Concept of health and disease. Population health and its indicators. Communicable diseases as a public health problem. Non-communicable diseases as a public health problem. Medical and demographic aspects of population statics and dynamics. Methods of evaluation and analysis of demographic indicators. Medical and demographic aspects of population reproduction. Measuring health and disease. Morbidity. Disease analysis methodology. Prevention of disease. Levels of prevention. Health promotion
3	Organization of health care. National health systems.	Organization of outpatient care to the population. Performance indicator. Organization of hospital care. Performance indicator. The system of maternity and child care. Organization of pediatric polyclinic work. Organization of the children's hospital work. Performance indicator. National Health care systems. Organization of public health systems. Family health. Organization of medical care on the principle of a General practitioner. Medical and social examination. Disability. Rehabilitation
4	Marketing, healthcare management, health economics.	Health care management. Health care marketing. Medical services market. Demand and supply. Leadership Health policy. Categories, goals, types, health policy objects. Implementation and evaluation. Health policy. Monitoring and evaluation of human resources for health. The basics of planning. Economics and health care financing. Types of health care efficiency (medical, social, economic). Management and Marketing of Health Care. Types of management.

5.2. Course sections and types of studies

No	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1	2	3	4	5	6	7	8	9	10
1	Bases of medical statistics and epidemiology for public health practice. Statistical method in public health	2	12					20	34
2	Public health and its factors. Health promotion. Modern problems of the prevention	14	20					46	80
3	Organization of health care. National health systems.	8	16					34	58
4	Marketing, healthcare management, health economics.	6	12					24	44
	Total	32	60					124	216

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	Bases of medical statistics and epidemiology for public health practice. Statistical method in public health	A presentation MCQs in Moodle system Review of published paper	review of presentation pass/failed test oral conversation
2	Public health and its factors. Health promotion. Modern problems of the prevention	A presentation MCQs in Moodle system	review of presentation pass/failed test
3	Organization of health care. National health systems.	A presentation MCQs in Moodle system	review of presentation pass/failed test
4	Marketing, healthcare management, health economics.	A presentation MCQs in Moodle system	review of presentation pass/failed test

7. Forms of control

7.1. Current forms of control

- oral (an interview, a report)
- written (tests, term, oral presentations, written assignments).

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. Form of interim assessment: exam

Stages of the interim assessment

1. Stage – multiple choice questions test
2. Stage – written assignment

Questions for the pass are listed 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. Reshetnikov, A. V. Sociology of Medicine : textbook / A. V. Reshetnikov - Москва : GEOTAR-Media, 2020. - 368 p. - 368 с. - ISBN 978-5-9704-5447-3. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970454473.html>
2. Health Promotion. Disciplines, diversity, and developments/ ed. R. Bunton, G. Macdonald. -2th. ed. -London; New York: Routledge, 2004. -325 p.
3. Tulchinsky T. H. The New Public Health: An Introduction For The 21st Century/ T. H. Tulchinsky, E. A. Varavikova. -San Diego; New York; Boston: Academic Press, 2000. -882 p.
4. Krukemeyer M. Introductory Guide to Medical Training. From Basic Sciences to Medical Specialties [Электронный ресурс] / M. Krukemeyer. - 1st ed. - [Б. м.] : Thieme, 2015. - URL: https://medone-education.thieme.com/ebooks/2093828?fromSearch=true#/ebook_2093828_SL80527499
5. History of Medicine and Public Health : training manual / A. G. Kalinin, V. A. Postoev ; Ministry of Healthcare of the Russian Federation, Northern state medical university. - Arkhangelsk : NSMU Publishing, 2021. - 120 p. - References: p. 113-115.

8.2. Supplementary literature

1. A new public health in an old country : an EU-China conference in Wuhan, China, October 24-29, 1998/ Nordic School of Publ. Health, Univ. of Turin, Hubei Medical Univ.; ed.: F. Cavallo, L. Kohler, S. Su. -Goteborg, 2000. -242 p.
2. Berntsson L. Health and well-being of children in the five Nordic countries in 1984 and 1996 : diss. from the Nordic School of Public Health/ L. Berntsson. -Uddevalla: MediaPrint, 2000. -200 p.
3. Brimhealth. Baltic Rim Partnership for Public Health 1993-2003 : an unusual evaluation of an unusual project/ ed. S. Bihari-Axelson, I. Borup, E. Wimmerstedt. -Goteborg: Nordic School of Public Health, 2004. -88 p.
4. Cabrera C. Socio-economic Status and Health in Women : population-based studies with emphasis on lifestyle and cardiovascular disease/ C. Cabrera; Nordic School of Publ. Health, Sahlgrenska Acad. at Goteborg Univ.. - Goteborg: NHV, 2005. -148 с.
5. Nutbeam D. Theory in a Nutshell: a practical guide to health promotion theories/ D. Nutbeam, E. Harris. - 2th. ed.. -Sydney: The McGraw-Hill , 2007. -81 p.
6. Planning health promotion programmes : An intervention Mapping Approach/ L. K. Bartholomew [et al.]. -2th. ed.. -San Francisco: A Wiley Imprint, 2006. -767 p.
7. Rothman K.J. Epidemiology an introduction/ K. J. Rothman. -Oxford: Oxford University Press, 2002. -223 p.
8. Медик, В. А. Общественное здоровье и здравоохранение : учебник / В. А. Медик. - 4-е изд. , перераб. - Москва : ГЭОТАР-Медиа, 2020. - 672 с. - ISBN 978-5-9704-5737-5. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970457375.html>

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

Resource name	Url	Resource annotation
Electronic library systems (electronic libraries)		
Electronic library of SSMU	http://lib.nsmu.ru/lib/	educational, educational-methodical and scientific literature
EBS "Student's Consultant": Medicine. Healthcare. Humanities and social sciences. Natural Sciences	http://www.studentlibrary.ru/ http://www.studmedlib.ru/ http://www.medcollegelib.ru/	sets of educational and scientific literature on medicine, health care, natural, humanitarian and social sciences
EMB "Doctor's Consultant"	http://www.rosmedlib.ru	practical guides, reference books, monographs, recommendations and other publications
MedOneEducation -Электронная библиотека медицинских учебниковиздательства «Thieme»	http://medone- education.thieme.com/	online books in English
Professional databases		
Database of scientific journals. Scientific electronic library Medline	https://pubmed.ncbi.nlm.nih.gov/	PubMed comprises more than 33 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links

		to full text content from PubMed Central and publisher web sites.
WHO publications. Database "GlobalIndexMedicus". World health organization	https://www.who.int/ru	information materials, reports from WHO, etc.
База данных «Web of Science» (WOS)	https://www.webofscience.com	biomedical literature, life science journals, and online books
База данных «Scopus»	https://www.scopus.com/	biomedical literature, life science journals, and online books
Электронные ресурсы издательства Wiley	https://onlinelibrary.wiley.com/	biomedical literature, life science journals, and online books
Information reference systems		
reference system Federal Electronic Medical Library (FEMB)	http://femb.ru/	State Pharmacopoeia of the Russian Federation, clinical guidelines (treatment protocols), scientific and educational literature, dissertations and abstracts
Other resources		
Russian scientific fund	https://rnf.rf	The purpose of the RSF is to provide financial and organizational support for fundamental research and exploratory research, training of scientific personnel, and the development of research teams holding leading positions in a particular field of science.

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	https://edu.nsmu.ru/course/view.php?id=269	+EC

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

In the implementation of the educational process, students and faculty use the following software: **operating system** - MSWindowsVistaStarter, MSWindowsProf 7 Upgr; **office suite** - MSOffice 2007; other **software** - 7-zip, AdobeReader, KasperskyEndpointSecurity

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	Aud. No. 2453 <i>Office of Public Health and Health Care, Organization of Professional Activities</i>	Auditorium of the Department of Public Health, Health Care and Social Work: 163000, Arkhangelsk, prosp. Troitsky, 51 4th floor of the administrative building	30 seats Multimedia projector - 1, computer - 1 pc.
2	Aud. No. 2441 <i>Cabinet of Economics and Management in Health Care, Economics and Management of Laboratory Services</i>	Auditorium of the Department of Public Health, Health Care and Social Work: 163000, Arkhangelsk, prosp. Troitsky, 51 4th floor of the administrative building	24 seats Multimedia projector - 1.
3	Aud. No. 2451 <i>Classroom for seminar-type classes, group and individual consultations, monitoring and intermediate certification</i>	Auditorium of the Department of Public Health, Health Care and Social Work: 163000, Arkhangelsk, prosp. Troitsky, 51 4th floor of the administrative building	42 seats Multimedia projector - 1, computer - 1 pc.

4	Aud. No. 2442 <i>Classroom for seminar-type classes, group and individual consultations, monitoring and intermediate certification</i>	Auditorium of the Department of Public Health, Health Care and Social Work: 163000, Arkhangelsk, prosp. Troitsky, 51 4th floor of the administrative building	30 seats Multimedia projector - 1.
5	Audit No. 2440 <i>Classroom for seminar-type classes, group and individual consultations, monitoring and intermediate certification</i>	Auditorium of the Department of Public Health, Health Care and Social Work: 163000, Arkhangelsk, prosp. Troitsky, 51 4th floor of the administrative building	11 seats. computer - 11 pcs., connected to the Internet, multimedia projector - 1
6	Aud. No. 2445 <i>Classroom for seminar-type classes, group and individual consultations, monitoring and intermediate certification</i>	Auditorium of the Department of Public Health, Health Care and Social Work: 163000, Arkhangelsk, prosp. Troitsky, 51 4th floor of the administrative building	28 seats, TV - 1

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SYLLABUS OF THE DISCIPLINE

Discipline Dermatovenereology

Field of training 31.05.01 General Medicine

Year of training IV Semester 7

Form of the interim attestation condition

Department Skin and Venereal Diseases.

Course workload 108 / 3

Approved at the department meeting

Minutes No.

June 15th 2021

Head of the department

Author and compiler:

Kashutin S.L., d.m.s., Shapchits N.L. academic assistant

Arkhangelsk, 2021

1. Purpose and objectives of the course:

The purpose of the course is to develop students' skills in differential diagnosis of skin and venereal diseases.

The objectives of the course are:

- to teach students to carry out measures on formation of motivated attitude of the population to preservation and strengthening of their health and health of other people in a tense epidemiological situation of infectious skin and venereal diseases;
- to know the organization of prophylactic and antiepidemic measures of preventing the occurrence and spread of contagious skin and venereal diseases;
- to familiarize students with the prevalence, etiology, pathogenesis, clinical signs, principles of treatment of skin and venereal diseases;
- to form students' skills in diagnosing and treatment of emergency dermatological conditions;
- to learn to use means of herbal medicine, the main resort factors in rehabilitation of the patients with skin diseases

2. Goal and tasks of the mastering of the discipline

The discipline of "Dermatology" is studied in the 7 semester, refers to the cycle of professional disciplines of the educational standard of higher professional medical education "General medicine".

The basic knowledge required for the study of the discipline is studied:

- on the cycle of humanitarian disciplines (philosophy, bioethics, education, psychology, law, history of medicine, economics, Latin, foreign language);
- on the cycle of mathematical, scientific, medical and biological disciplines (mathematics, physics, chemistry, biochemistry, biology, medical science, anatomy and topographic anatomy, microbiology, virology, immunology, histology, cytology, normal physiology, pathological anatomy, pathophysiology, physiology, pharmacology);
- on the cycle of professional disciplines (general hygiene, public health monitoring, clinical laboratory diagnostics, propaedeutics internal medicine, internal medicine, general physiotherapy, endocrinology, professional diseases, general surgery, Intensive Care and anesthesiology, surgical diseases, urology, radiodiagnosis, disaster medicine, life safety, medical rehabilitation, medical genetics).

Teaching of the discipline must be carried out on the basis of the Arkhangelsk regional dermatology and venearology clinic. The training material on the subject "Dermatology" is mastered by the students systemically, with the teaching of the common issues of diagnosis and treatment precedes teaching the basics of private pathology. The focus is on clinical signs of skin and venereal diseases, modern methods of instrumental and laboratory diagnosis using knowledge of the latest concepts of etiology and pathogenesis of diseases, as well as new methods of treatment and rehabilitation.

3. Planned results of the development of the educational program, provided by the discipline (module).

Competency codes to be formed/competency statements	Competency achievement indicator
PC-3. Ability and willingness to manage and treat patients with various nosological forms	ID-3.1. Able to draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the age of the patient, the clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations

	<p>(treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>ID-3.2. Prescribes medicines, medical products and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>ID-3.3. Prescribes non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>ID-3.4. Owns an algorithm for providing palliative care in interaction with medical specialists and other medical workers.</p> <p>ID-3.5. Able to prescribe personalized treatment for the patient, including pregnant women, elderly and senile patients; conduct a physiological pregnancy, take birth.</p> <p>ID-3.6. Uses medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care.</p>
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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
Interaction between students and a professor (in total)		7
Including:		
Lectures (L)	18	18
Seminars (S)		
Practicals classes (PC)		
Clinical practicals (CP)	54	54
Laboratory-based practicals (LBP)		
Simulation-based practicals (SBP)		
Interaction work during the exam		
Interaction work during the pass/fail test		
Consultations for the exam		
Coursework		
Unsupervised work (UW) (total)	36	36
Control		+
Total workload (hours)	108/3	108/3

5. Course content:

5.1. Contents of the sections of the course

№ п/п	Name of the course section	Content of the section
1.	General dermatology.	<p>The structure of the skin. The epidermis, derma, subcutaneous fat, blood and lymphatic network, innervation of the epidermis, dermis, subcutaneous tissue. Skin appendages: sweat and sebaceous glands, nails, muscles of the skin. Neuro-receptor apparatus.</p> <p>The physiology of the skin. Functions of the skin: protection thermoregulation, reception, secretion, resorption, respiration, metabolism, reflection, immune. The relationship between the skin and the vital functions of the body in health and disease.</p> <p>Morphological elements. Primary and secondary elements, the relative position of the elements of the eruption (isolated elements, merging, grouping, erythroderma). Monomorphic and polymorphic rash, symmetrical and asymmetrical arrangement of the eruption, localization of the eruption. The meaning of skin biopsy for diagnosis.</p> <p>Examination of skin of the patient. Methods of examination, used in dermatology: clinical, histological, microbiological, physiological, biochemical, immunological. The techniques of dermatological clinical examination of the</p>

		<p>patient: determining the sensitivity and permeability of the skin., dermatographism evaluation, checking of the muscle-hair reflex, the pharmacodynamic tests., hydrophilicity samples, symptoms of the pinch and the harness, chemical agents tests, iodine samples, layered scratchboard, diascopy, test with bellied probe, Besnier-Meshchersky symptom, Nikolsky sign, identification of scabies moves, luminescence, taking pathological material (hair, nails, scales).</p> <p>The main biochemical and serological tests used in dermatological practice.</p> <p>Principles of treatment of dermatological patients. Formulations. Formulation in dermatology. Topical steroids: mechanism of action, classification, indications, contraindications, systemic side effects. Systemic steroids: mechanism of action, classification, indications, contraindications, side effects, application schema. Antihistamines: mechanism of action, classification, indications, contraindications, side effects. Fizoterapiya. Diet therapy.</p>
2.	Noninfectious diseases of the skin	<p>Allergodermatoses</p> <p>Dermatitis. Definition of dermatitis: simple or contact, artificial in individuals with normal skin reactivity (etiology, differential diagnosis, treatment, prognosis); allergic or sensitizing (etiology, differential diagnosis, skin tests, treatment, prognosis). Concept of obligate and facultative irritants (allergens).</p> <p>Toksidermii. Definition, etiology and pathogenesis; Clinic, common symptoms, morphological types of reactions to certain medications; diagnosis of drug reaction (allergic history, skin tests, immunological tests); principles of treatment; prevention. Lyell's syndrome. Onset of the disease, common symptoms, clinical manifestations on the skin and mucous membranes, types of course, diagnosis, differential diagnosis, treatment.</p> <p>Eczema. Etiology; pathogenesis; Clinic, eczematous stage of the process, pathognomonic symptoms. Clinical forms of eczema: true, microbial, seborrheic, professional, infant. Histopathology eczema. The course; diagnosis; treatment (regimen, diet, hygienic water treatment); Treatment of typical eczema, widespread, including erythroderma resistant cases of eczema; indications for oral corticosteroids and / or parenteral, topical treatment, relapse prevention.</p> <p>Atopic dermatitis. Etiology, pathogenesis (endogenous and exogenous factors, the concept of atopy, disruption of the central nervous system), clinic, clinical classification, course, complications, prognosis, diagnosis, differential diagnosis, treatment (general and local, health resort), prevention.</p>

		<p>Urticaria. Etiology; pathogenesis, clinical variants; diagnosis, differential diagnosis, treatment; Emergency aid for angioedema, prognosis, prevention.</p> <p>Pruritic dermatoses.</p> <p>Pruritus. The causes of itchy skin; pathophysiological aspects of itching. Itching as one of the symptoms of somatic diseases. Clinical variants of limited, spread, senile, winter, height pruritus. Treatment. Prevention.</p> <p>Prurigo. The definition, pathogenesis, clinical forms, treatment.</p> <p>Bullous autoimmune dermatoses.</p> <p>Pemphigus. Classification, pathogenesis. The clinical picture of vulgar, leaf-shaped, vegetating, seborrheic pemphigus. Primary localization on the skin and mucous membranes. Diagnosis: direct and indirect Nikolsky sign, symptom of Asbo-Hansen, cytological examination of Tzank cells, histological examination of biopsy of the skin. Differential diagnosis. Treatment of patients with pemphigus acantholytic (corticosteroids and cytotoxic drugs, the treatment of "support" doses on an outpatient basis. Complications, their prevention and treatment, prognosis. Medications used in the treatment of pemphigus, their dosage, the diet of patients, external therapy, occupational expertise.</p> <p>Dühring herpetiformis dermatosis. Etiology and pathogenesis; Clinic (complaints, the nature of lesions, laboratory tests, differential diagnosis, histopathology), treatment of sulfone drugs; atypical forms (trihofitoidnaya, ekzemopodobnye et al.).</p> <p>Diseases of the skin appendages.</p> <p>Psoriasis. Etiology, pathogenesis; Clinic (primary and secondary elements, pathognomonic symptoms, diagnostic tests, clinical variants, the stage, the defeat of the joints and internal organs); histopathology, diagnosis and differential diagnosis, treatment, physical therapy, spa treatment, relapse prevention.</p> <p>Lichen planus. The etiology and pathogenesis, histopathology, clinical presentation (typical and atypical shapes, defeat the oral mucosa), diagnosis differentialny diagnosis, treatment, prevention of recurrence. Болезни соединительной ткани.</p> <p>Lupus erythematosus. Etiology, pathogenesis, clinical variants of chronic lupus erythematosus; discoid, disseminated, centrifugal, deep; differential diagnosis, course, treatment.</p>
3.	Infectious diseases of the skin.	<p>Pyoderma. The composition of the normal flora of the skin and its function. Etiology, pathogenesis, factors that contribute to the development of piodermity classification (by etiology, primary, depth, immunological reactivity).</p>

		<p>Mycosis. Dermatophytes, their biology, epidemiology, predisposing factors. Classification of the depth of defeat (keratomikozy, epidermomikozy, trihomikosis, deep mycoses).</p> <p>Keratomikosis. Chromophytosis: etiology, pathogenesis, clinical picture, diagnosis, differential diagnosis, treatment, prevention.</p> <p>Feet mycosis. Clinical forms (squamous, intertriginous, disgidroticheskaya acute mycosis, onychomycosis). Diagnosis, treatment, depending on the clinical form. Prevention.</p> <p>Trihomikosis. Microsporia, trichophytosis. Etiology, pathogenesis, classification, etiology (antropofilny, zoofilny), clinical lesions of the scalp (surface shape, a deep form), clinical lesions smooth skin (with the defeat vellus hair without defeat vellus hair). Parasitic sycosis. The diagnosis, differential diagnosis. Treatment of systemic antifungals (indications, contraindications, monitoring of treatment), local antimycotics. Physiotherapy. Clinical supervision. Prevention.</p> <p>Deep mycoses. Blastomycosis, chromomycosis. Etiology, pathogenesis, diagnosis, differential diagnosis, treatment, prevention.</p> <p>Parasitic diseases.</p> <p>Scabies. Etiology, pathogenesis, the life cycle of itch mite, clinical, clinical varieties of scabies (scabious limfoplaziya, scabies "cleanly", "Norwegian" scabies). Complications scabies (allergodermia, eczematization, secondary infection). Diagnosis, treatment and control of cure, control measures, prevention.</p> <p>Lice. Head lice, etiology, pathogenesis, life cycle, clinical presentation, treatment, protivoeipidemicheskie with the activities, prevention. Hanging lice etiology, pathogenesis, life cycle, clinical presentation, treatment, protivoeipidemicheskie event prevention. Pubic lice (pediculosis pubis), etiology, pathogenesis, life cycle, clinical presentation, treatment, protivoeipidemicheskie with the activities, prevention.</p>
4.	Syphilis.	<p>Development stages of Venereology. Social aspects of sexually transmitted diseases. Methods of examination of patients with sexually transmitted diseases. Questions of ethics. Etiology, epidemiology. The immunity for the general classification.</p> <p>Etiology and pathogenesis of syphilis. The causative agent, differences between <i>Treponema pallidum</i> and saprophytic treponemes, the incubation period, epidemiology, general course of syphilis.</p> <p>Clinic of syphilis.</p> <p>Primary period of syphilis. Clinical manifestations. Clinical characteristics of the chancre (a kind of chancre, diagnostic</p>

		<p>features). Characteristics of regional lymphadenitis. Complications chancre, differential diagnosis.</p> <p>The secondary period of syphilis. Feature vysypnyh elements in the secondary period (spotted, papular, pustular syphilides), secondary fresh and secondary recurrent syphilis lesion of the oral mucosa, alopecia, leucoderma differential diagnosis.</p> <p>Tertiary syphilis (tertiary active and tertiary hidden), the main clinical forms Bugorkova gumoznogo and syphilis. Differential diagnosis.</p> <p>Congenital syphilis. Classification. Clinical manifestations in various stages of congenital syphilis.</p> <p>Diagnosis of syphilis.</p> <p>Research on pale treponemu. Research on Treponema pallidum in the dark field.</p> <p>Treatment and prevention of syphilis. Logistical support, types of treatment (preventive, specific, prophylactic trial, epidemiological), treatment methods of preventive treatment, sptsificheskogo treatment of primary, secondary, tertiary, and congenital syphilis. Alternative treatment regimens. Treatment of pregnant women. Treatment of children, the calculation of the dosage of drugs</p>
5.	Sexually transmitted infections/	<p>Gonorrhea. Characteristics of the pathogen. Epidemiology. Gonorrhea in men, classification. Complications. Laboratory diagnosis. Principles of treatment of gonorrhea. The criteria for cure gonorrhea. Prevention of gonorrhea.</p> <p>Trichomoniasis. Pathogen. Epidemiology. Clinic trichomoniasis in men. Laboratory diagnosis. Principles of treatment. The criteria for cure trichomoniasis. Prevention.</p> <p>Chlamydia. Etiology, epidemiology, general pathology, pathogenesis. Clinic of urogenital chlamydia. Extragenital manifestations of infection. Chlamydia and sterility. The methodology of the survey. Modern methods of laboratory diagnostics. Reiter's syndrome. Principles of treatment of chlamydia and its complications. The criteria for cure chlamydia. Prevention.</p> <p>Mycoplasmosis. Epidemiology, etiology, clinical features, diagnosis, complications. Principles of treatment. The criteria for cure. Prevention.</p> <p>Genital herpes. Pathogen. Epidemiology. The clinical picture. Principles of treatment, prevention.</p> <p>Anogenital warts. Pathogen. Epidemiology. The clinical picture. Principles of treatment, prevention.</p>

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1	General dermatology	4	-	-	5	-	-	10	19
2	Noninfectious diseases of the skin	4	-	-	10	-	-	10	24

3. Stage - interview

8. Library and information materials of the course

8.1. Compulsory literature

1. Dermatovenereology [Text]: a textbook for medical students. universities / [E. V. Sokolovsky [and others]; ed. E. V. Sokolovsky. - St. Petersburg: SpetsLit, 2017. -687 p.: ill.
2. Kashutin S. L. Dermatovenereology [Electronic resource]: textbook / S. L. Kashutin. - Arkhangelsk: Publishing House of the Northern State Medical University, 2015. -138 p. 1&S21REF=3&S21FMT=fullwebr&C21COM=S&S21CNR=20&S21P01=0&S21P02=1&S21P03=I=&S21STR=elb/K%2031-892310.
3. Skripkin Yu.K. Skin and venereal diseases [Electronic resource]: textbook / Yu. K. Skripkin, A. A. Kubanova, V. G. Akimov. - Moscow: GEOTAR-Media, 2012. - 544 p.: ill. - URL: <http://www.studentlibrary.ru/book/ISBN9785970419939.html>
4. Chebotarev V.V. Dermatovenereology [Electronic resource]: a textbook for students of higher educational institutions / V. V. Chebotarev, M. S. Askhakov. -2nd ed., rev. and additional .. - Moscow: GEOTAR-Media, 2020. - 680 p.: ill. - URL: <https://www.studentlibrary.ru/book/ISBN9785970452912.html>.
5. Askhakov M.S. Dermatovenereology. Multi-level tasks for the formation of clinical thinking [Electronic resource]: study guide / M. S. Askhakov. - Moscow: GEOTAR-Media, 2021. - 160 p. - URL: <https://www.studentlibrary.ru/book/ISBN9785970459805.html>

8.2. Supplementary literature

1. Vladimirov V.V. Skin and venereal diseases [Electronic resource]: atlas: textbook / VV Vladimirov. - Moscow: GEOTAR-Media, 2016. - 232 p. - URL: <http://www.studentlibrary.ru/book/ISBN9785970435465.html>.
2. Platonova, A. N. Dermatovenereology. Atlas [Electronic resource]: textbook / A.N. Platonova, A.L. Bakulev, S.R. Utz. - Moscow: GEOTAR-Media, 2017. - 136 p. - Access mode: <http://www.studentlibrary.ru/book/ISBN9785970440858.html>

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

№	Resources	URL address	Resource Annotation
1	NSMU Electronic Library	http://nsmu.ru/lib/	contains texts of textbooks, manuals and other materials
2	EBS "Student consultant" VPO, SPO. Kits: Medicine. Healthcare. Humanities and social sciences. Natural sciences	http://www.studentlibrary.ru/ http://www.studmedlib.ru/ http://www.medcollegelib.ru/	A service with which you can create your own lists of books, edit and send to other users of the EBC.
3	MedOne Education - Electronic library of medical textbooks published by "Thieme"	http://medone-education.thieme.com/	The section contains links to books on medicine.

4	Database of scientific journals. Scientific Electronic Library eLIBRARY.RU	http://www.elibrary.ru	It presents bibliographic descriptions and annotations of more than 22 million scientific articles in open access.
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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	6 COURSE Dermatovenereology Differential diagnosis of skin and venereal diseases	https://edu.nsmu.ru/course/view.php?id=1557

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

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

No.	The name of the school's office	Location of the study room	List of the main equipment of the study room
1	Seminar type classroom	Arkhangelsk, pr. Sibiryakovtsev, 2, Bldg. 1, office number 17	- computer class with 12 seats with Internet access and individual audio accompaniment, - multimedia projector. Slides, computer programs, tables, models.
2	Seminar type classroom	Arkhangelsk, pr. Sibiryakovtsev, 2, Bldg. 1, office number 17a	- TV - DVD player Slides, computer programs, tables, models.
3	Seminar type classroom	Arkhangelsk, pr. Sibiryakovtsev, 2, Bldg. 1, office number 12	- TV - DVD player - Computer class with 12 seats with Internet access and individual audio accompaniment, - multimedia projector. Slides, computer programs, tables, models.

MINISTRY OF HEALTHCARE OF THE RUSSIAN FEDERATION
Federal State Government-Funded Educational Institution of Higher Education
«NORTHERN STATE MEDICAL UNIVERSITY»
of Ministry of Healthcare of the Russian Federation

«APPROVED»

Dean of the International Faculty of General
Practitioner
Sherstennikova A.K.

«____» _____ 2021 г.

SYLLABUS OF THE COURSE (MODULE)

Course **Neurology and neurosurgery**

Training field **31.05.01 General Medicine**


Year of study 4

Form of the interim assessment (pass/fail test, examination)

Department Family medicine and internal medicine

Course workload 144 (hours)/ 4 (credits)

Approved at the department meeting:
Minutes №11
«11» 06 2021
Head of the department Family medicine
and internal medicine
Prof. Popov V.V., PhD

_____  _____

Author and compiler: Artemova Natalya Anatolyevna, associate Professor of family medicine
and internal medicine, PhD.

Arkhangelsk, 2021

1. Goal and tasks of the mastering of the course
Purpose of studying the discipline

- Preparation of a specialist for the implementation of diagnostic, therapeutic and preventive activities in the pathology of the neurological profile in adults.

Tasks:

1. Development of motivation for learning by updating the content of training to the requirements of the professional activities of a doctor when providing assistance in the defeat of the nervous system.
2. Formation of knowledge about the bases of etiopathogenesis, clinical manifestations, diagnosis of the most common diseases of the nervous system.
3. Forming the skills of neurological examination, conducting the basics of topical and nosological diagnosis of diseases of the nervous system, selecting diagnostic measures and interpreting their results.
4. Development of professionally important personal qualities, such as: responsibility, discipline, humanity, initiative, self-determination, etc.

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

The program is drawn up following the requirements of the Federal State Education Standard (FSES) in the training field: 31.05.01 General Medicine.

Teaching Neurology is part of the **Professional Cycle (C3), the basic part**

The basic knowledge necessary for the study of discipline is formed:

- *in the cycle of humanitarian and socio-economic disciplines* (philosophy, bioethics, psychology, pedagogy, jurisprudence, history of medicine, Latin, foreign language);
- *in the cycle of mathematical, natural, scientific, biomedical disciplines* (biology: microscopic and submicroscopic structure of cells, general and specialized functions of cells, biochemistry: mechanisms of biochemical homeostasis of the organism, main indicators of metabolism in norm and pathology, modern methods of biochemical research in the clinic, human anatomy: the structure of the central, peripheral and autonomic nervous system, vascular and musculoskeletal systems, topographic anatomy: violation of the functions of the specified systems histology, cytology: histological structure of the nerve cell, cerebral cortex, membranes, normal physiology: functions of the central, peripheral and autonomic nervous system, the vascular system, pathological physiology of changes in the nervous system under various pathological conditions, microbiology, virology, pharmacology: basics of pharmacokinetics of drugs;
- *in the cycle of medical professional and clinical disciplines* (medical rehabilitation, hygiene, public health, public health, health economics, propaedeutics of internal diseases) - biology: - biochemistry :: - histology, embryology, cytology: anatomy:: - normal physiology: - pathophysiology, clinical pathophysiology;; - pathological anatomy, clinical pathological anatomy:

The acquired knowledge of the discipline "Neurology and Neurosurgery" is used in the study of the following disciplines: - obstetrics and gynecology: the course of pregnancy and childbirth in the pathology of the nervous system; - Hospital therapy: neurological disorders in the pathology of cardiovascular, endocrine, systems. Respiratory organs, kidneys, etc .; - infectious diseases: features of manifestations of inflammatory diseases in patients with pathology of the nervous system; - Oncology, radiotherapy: the basic principles of diagnosis and treatment of oncological diseases of the nervous system; - otorhinolaryngology: development of inflammatory diseases and possible complications; - traumatology, orthopedics: classification of spine traumas and craniocerebral injuries; - ophthalmology: the nature of various diseases of the organ of vision and differential diagnosis; - psychiatry, medical psychology: differential diagnostics of neuroses and other related diseases; - Clinical pharmacology: the basics of pharmacokinetics of drugs and their use in neurology;

3. The list of planned results of training in the discipline, correlated with the planned results of mastering the educational program

Codes of formed competencies/formulations of competencies	Competence achievement indicator
<p>GPC-4. Is able to use medical devices provided for by the procedure for providing medical care, as well as to conduct examinations of the patient in order to establish a diagnosis</p>	<p>AI-4.1. Owns modern methods of using medicines, medical devices and therapeutic nutrition for diseases and conditions in the patient in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>AI -4.2 Knows how to justify a choice of laboratory and instrumental methods of examination of the patient.</p> <p>AI -4.3. Has the skills to evaluate the results of laboratory and instrumental methods of examination of the patient in order to establish a diagnosis.</p>
<p>GPC-5. Able to assess morphofunctional, physiological states and pathological processes in the human body to solve professional problems</p>	<p>AI -5.1. He knows anatomy, histology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems.</p> <p>AI -5.2. Able to identify and evaluate morphofunctional, physiological states and pathological processes in the human body</p> <p>AI -5.3. He knows the methods of clinical, laboratory and functional diagnostics for solving professional tasks.</p> <p>AI -5.4. He is able to analyze the results of clinical, laboratory and functional diagnostics to assess morphofunctional, physiological conditions and pathological processes in the human body.</p>
<p>GPC-7. Able to prescribe treatment and monitor its effectiveness and safety</p>	<p>AI -7.1. He is able to develop a treatment plan for the disease and the patient's condition in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care.</p> <p>AI -7.2. It is able to prevent or eliminate complications, side effects, undesirable reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of medicines and (or) medical devices, non-drug treatment.</p> <p>AI -7.3. Has the skills to assess the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition.</p>
<p>PC-2. The ability and willingness to conduct a patient examination in order to establish a diagnosis</p>	<p>AI -2.1. He is able to collect complaints, anamnesis of the patient's life and illness and analyze the information received, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results.</p> <p>AI -2.2. Has the skills to determine the patient's main pathological conditions, symptoms, disease</p>

	<p>syndromes, nosological forms in accordance with the current international statistical classification of diseases and health-related problems.</p> <p>AI -2.3. He is able to justify the necessity and scope of laboratory and instrumental examination of the patient in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care and interpret its results.</p> <p>AI -2.4. Performs early diagnosis of diseases of internal organs and performs differential diagnosis of diseases of internal organs from other diseases.</p>
<p>PC-3. Ability and readiness to manage and treat patients with various nosological forms</p>	<p>AI -3.1. He is able to draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>AI -3.2. Prescribes medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>AI -3.3. Prescribes non-drug treatment, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p>
<p>PC-5. The ability and readiness to provide medical care in an urgent and emergency form, the statement of biological death of a person</p>	<p>AI -5.1. He is able to identify clinical signs of conditions that require medical care in an emergency form.</p> <p>AI -5.2. Performs measures to provide medical care in an emergency form in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care.</p>

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

Total workload of the course is 4 credits.

Type of the academic work	Total hours	Term	
		7	8
Interaction between students and a professor (in total)	56,3	24	32,3
Including:			

Lectures (L)	18	8	10
Seminars (S)			
Practicals (P)			
Clinical practicals (CP)	36	16	20
Laboratory-based practicals (LBP)			
Simulation-based practicals (SBP)			
Interaction work during the exam	0,3		0,3
Interaction work during the pass/fail test			
Consultations for the exam	2		2
Coursework			
Unsupervised work (UW) (total)	54	30	24
Control	33,7		33,7
Total workload (hours)	144/4	54	90

5. Contents of the course:

5.1. Contents of the sections of the course

No.	Name of the course section	Content of the section
1	General neurology. The study of pathological symptoms and syndromes in neurology, the technique of setting a topical diagnosis in neurology	1. Arbitrary movements and their disorders 2. Sensitivity and its disorders. 3. Cranial nerves and violations of their functions. 4. Extrapyramidal system. Cerebellum. Coordination of movements and its disorders. 5. Cortex of the brain. Disorder of higher brain functions. Syndromes of lesions of individual parts of the brain.
2	Special Neurology	1. Fundamentals of liquorology, cerebrospinal fluid. Meningeal and hypertensive syndrome. Hydrocephalus. Acute infectious diseases of the nervous system: meningitis, encephalitis, epiduritis, myelitis. Clinic, diagnosis treatment, prevention. 2. Paroxysmal disorders of consciousness. An epileptic reaction. Epileptic syndrome. Epilepsy. Epileptic status. 3. Demyelinating diseases of the nervous system: multiple sclerosis, disseminated encephalomyelitis 4. Vascular diseases of the brain (strokes, dyscirculatory encephalopathy). 6. Diseases of the peripheral nervous system: mononeuritis, polyneuritis, Guillain-Barre syndrome. 7. Osteochondrosis of the spine and its neurological complications. 8. Hereditary neuromuscular diseases: myopathies, myasthenia gravis.

		9. Traumatic brain injury and spinal cord injuries 10. Tumors of the brain and spinal cord.
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5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1.	Sensitivity and its disorders.	2			4			5	11
2.	Arbitrary movements and their disorders	2			4			5	11
3.	Cranial nerves and violations of their functions (1-6 pairs).	-			2			6	8
4.	Cranial nerves and violations of their functions (7-12 pairs). Bulbar and pseudobulbar syndromes. Alternating syndromes.	-			2			6	8
5.	Extrapyramidal system. Akinet-rigid syndrome. Hypotonic-hyperkinetic syndrome. Coordination of movements and its disorders (ataxia). Cerebellum and syndromes of its defeat.	2			2			4	8
6.	Cortex. Disorder of higher brain functions. Symptoms of lesions of individual parts of the brain.	2			2			4	8
7.	Headache				1			3	4
8.	Fundamentals of liquorology, cerebrospinal fluid. Meningeal and hypertensive syndrome. Hydrocephalus. Acute infectious diseases of the nervous system: meningitis, encephalitis, epiduritis, myelitis. Clinic, diagnosis treatment, prevention.	2			2,5			3	7,5
9.	Paroxysmal disorders of consciousness. An epileptic reaction.	2			3			3	8

	Epileptic syndrome. Epilepsy. Epileptic status.								
10.	Demyelinating diseases of the nervous system: multiple sclerosis, disseminated encephalomyelitis	2			2			3	7
11.	Vascular diseases of the brain: etiology, pathogenesis, clinic (strokes, dyscirculatory encephalopathy).	2			4			3	9
12.	Diseases of the peripheral nervous system: mononeuritis, polyneuritis. Osteochondrosis of the spine and its neurological complications.	0			2,5			3	5,5
13.	Hereditary neuromuscular diseases: myopathies, myasthenia gravis.	-			1,5			3	4,5
14.	Traumatic brain injury and spinal cord injuries	2			2			1	5
15.	Tumors of the brain and spinal cord	0			2			2	4

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 Neurology	Preparation of abstracts, abstracts, abstracts (presentations), diagrams, graphological structures, structural and logical schemes, a crossword, a glossary, clinical analysis Testing (compilation of their test tasks with the standards of answers and self-training in the tests presented by the department). Preparation of training programs. SDE Moodle	Oral (a survey, a report, a presentation, an interview, a discussion) Written (check abstract / presentation, abstract, tests, tasks, crossword puzzles, glossaries, charts, graphs, programs).
2	Special Neurology	Preparation of the abstract, abstract report, abstract (presentation), essay, glossary, clinical analysis, discussion. Drawing diagrams, illustrations, graphs, diagrams, graphological structures, structural and logical schemes, a crossword, compiling diagnostic and therapeutic algorithms,	Oral (abstract message, presentation, interview, discussion, speech at a meeting of a scientific group on the topic of the meeting with

		adorning tables on a topic, an annotated list of scientific articles, including a foreign language, writing a resume, a dictionary, thesaurus, abstracts of scientific articles, test tasks with the standards of answers, training programs on the topics of classes, Preparation of training programs. Testing (self-training). Writing a student's medical history of a neurological patient. Participation in a student's scientific circle on neurology and neurosurgery. Participation in research work with writing a course work, abstracts, articles. SDE Moodle	questions of the theory and / or presentation of the patient, a scientific report) Written (check of the abstract, abstract, summary, medical history, situational tasks, tests, course work, abstracts, articles, essays, annotations, summaries, graphs, logical schemes, algorithms, tables
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7. Forms of control

7.1. Current forms of control

- oral (interview, discussion, report,)
- written (check of tests, abstracts, abstracts, problem solving).

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 examination

1. Stage - Testing on all topics of practical training
2. Stage - Practical skills "at the bedside of the patient"
3. Stage - All sections interview

Questions for 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 support of the course

8.1. Compulsory literature

1. Gusev E. I. Neurology and Neurosurgery [Electronic resource]: a textbook in 2t. / EI Gusev, AN Konovalov, VI Skvortsova; . - Moscow: GEOTAR-Media, 2015.

T. 2: Neurosurgery. - Moscow: GEOTAR-Media, 2015. - 408 p. : pic. - ISBN 9785970409091
Access mode: <http://www.studmedlib.ru/>

2. Gusev EI Neurology and Neurosurgery [Electronic resource]: a textbook in 2 volumes /, EI Gusev, AN Konovalov, VI Skvortsova; Ed. A. N. Konovalov. - Moscow: GEOTAR-Media, 2015.

T. 1: Neurology. - Moscow: GEOTAR-Media, 2015. - 640 p. : pic. - ISBN 9785970411285

3. Manipal Manual of Surgery [Text] / ed.: K.R Shenoy, A. Nileshtar. - 3th. ed. - New Delhi : CBS Publishers & Distributors, 2010. - 969 p. : il. - Index: p.963-969. - ISBN 978-81-239-1893-8 (binding)

4. Lindsay, Kenneth W..

Neurology and neurosurgery illustrated / K. W. Lindsay, I. Bone, G. Fuller. - 5th ed. - Edinburgh ; London ; New York : Elsevier Churchill Livingstone, 2010. - 600 p. : il. - Index: p. 567-600. - ISBN 978-0-443-06978-9. - ISBN 978-0-443-06957-4

5. Shaya, M.

Neurosurgery Rounds: Questions and Answers. [Электронный ресурс] / M. Shaya, C. Gragnaniello, R. Nader. - 2nd ed. - [Б. м.] : Thieme, 2017. - Режим доступа: https://medone-education.thieme.com/ebooks/2189942?fromSearch=true#/ebook_2189942_SL82955502

6. Anatomic Basis of Neurologic Diagnosis. [Электронный ресурс] / С. Alberstone [и др.]. - 1st ed. - [Б. м.] : Thieme, 2009. - Режим доступа: https://medone-education.thieme.com/ebooks/1255830?fromSearch=true#/ebook_1255830_SL54076006

7. Rohkamm, R.

Color Atlas of Neurology. [Электронный ресурс] / R. Rohkamm. - 2nd ed. - [Б. м.] : Thieme, 2014. - Режим доступа: https://medone-education.thieme.com/ebooks/2103195?fromSearch=true#/ebook_2103195_SL80750651

8. Borsody, M.

Comprehensive Board Review in Neurology. [Электронный ресурс] / M. Borsody. - 2nd ed. - [Б. м.] : Thieme, 2009. - Режим доступа: https://medone-education.thieme.com/ebooks/2022394?fromSearch=true#/ebook_2022394_SL78059685

9. Bahr, M.

Duus' Topical Diagnosis in Neurology: Anatomy, Physiology, Signs, Symptoms. [Электронный ресурс] / M. Bahr, M. Frotscher. - 5th ed. - [Б. м. : б. и.], 2012. - Режим доступа: https://medone-education.thieme.com/ebooks/2119556?fromSearch=true#/ebook_2119556_SL81091407

10. Mattle, H.

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8.2. Supplementary literature

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3. Skoromets, AA Topical diagnosis of diseases of the nervous system [Electronic resource] / A.A. Skoromets, A.P. Skoromets, T.A. Skoromets. - 8 th ed., Rev. and additional - SPb. : 2012. - 623 с.- Access mode: <http://www.studentlibrary.ru/book/>.

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6. Color Atlas of Acupuncture. Body Points, Ear Points, Trigger Pointse. [Электронный ресурс] / H. Hecker [и др.]. - 2nd ed. - [Б. м.] : Thieme, 2008. - Режим доступа: https://medone-education.thieme.com/ebooks/2122117?fromSearch=true#/ebook_2122117_SL81161686

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Topical diagnosis of diseases of the nervous system = Топическая диагностика заболеваний нервной системы [Электронный ресурс] : учебник на английском и русском языках / С. М. Карпов, И. Н. Долгова. - Москва : ГЭОТАР-Медиа, 2018. - 896 с. - Режим доступа: <http://www.studentlibrary.ru/book/ISBN9785970445013.html>

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

Internet Resources	Explanation	
Электронная библиотека СГМУ	http://nsmu.ru/lib/ <i>Доступ по паролю, предоставленному библиотекой</i>	
ЭБС "Консультант студента" ВПО, СПО. Комплекты: Медицина. Здравоохранение. Гуманитарные и социальные науки. Естественные науки	http://www.studentlibrary.ru/ http://www.studmedlib.ru/ http://www.medcollegelib.ru/ <i>Доступ активируется через регистрацию на любом компьютере университета.</i>	
ЭБС «Консультант врача»	http://www.rosmedlib.ru <i>Доступ по паролю, предоставленному библиотекой.</i>	
НЭБ - Национальная электронная библиотека	http://нэб.рф <i>Имеются ресурсы открытого доступа</i>	
Научная электронная библиотека eLIBRARY.RU	http://www.elibrary.ru <i>Открытый ресурс</i>	
Федеральная электронная медицинская библиотека (ФЭМБ)	http://feml.scsml.rssi.ru Открытый ресурс. Доступны клинические рекомендации (протоколы лечения).	
Университетская информационная система «Россия» (УИС Россия).	uisrussia.msu.ru <i>Доступ с компьютеров университета</i>	
Министерство здравоохранения РФ. Банк документов	https://www.rosminzdrav.ru/ <i>Открытый ресурс</i>	

Всемирная организация здравоохранения	https://www.who.int/ru <i>Открытый ресурс</i>	
Информационная система «Единое окно доступа к информационным ресурсам»	http://window.edu.ru/ <i>Открытый ресурс</i>	
VIDAL справочник лекарственных средств	https://www.vidal.ru/ <i>Открытый ресурс</i>	
Большая российская энциклопедия	https://bigenc.ru/ <i>Открытый ресурс</i>	
Гарант.ru Информационно-правовой портал	http://www.garant.ru/ <i>Ограниченный доступ</i>	
Правовая система «КонсультантПлюс»	http://www.consultant.ru/ <i>Доступ предоставляется в зале электронной информации библиотеки (ауд. 2317)</i>	
Официальный интернет-портал правовой информации	http://pravo.gov.ru/ <i>Открытый ресурс</i>	
Электронная коллекция медицинских учебников издательства «Thieme».	http://medone-education.thieme.com/ <i>Доступ с компьютеров университета по паролю</i>	
База данных «Web of Science»	https://www.webofscience.com <i>Доступ с компьютеров университета. Удаленный доступ - через личную регистрацию под IP-адресом университета</i>	
Издательство Elsevier	https://www.sciencedirect.com/ <i>Журналы открытого доступа</i>	
Издательство Springer Nature	https://link.springer.com/ <i>Доступ с компьютеров университета</i>	
База данных «Scopus»	https://www.scopus.com/ <i>Доступ с компьютеров университета</i>	
Издательств Royal Society of Chemistry	www.rsc.org/ <i>Имеются открытые ресурсы</i>	

PubMed Central (PMC) — полнотекстовый архив биомедицинских журналов Национальной библиотеки медицины США	www.pubmedcentral.nih.gov <i>Открытый ресурс</i>	
Открытый архив университета Тромсе (Норвегия)	http://munin.uit.no/ <i>Открытый ресурс</i>	
Журналы издательства De Gruyter Open	https://content.sciendo.com/ <i>Открытый ресурс</i>	
Directory of Open Access Books (DOAB)	https://www.doabooks.org/ <i>Открытый ресурс</i>	
Directory of Open Access Journals (DOAJ)	https://doaj.org/ <i>Открытый ресурс</i>	
База данных EBSCO Open Dissertations	biblioboard.com/opendissertations <i>Открытый ресурс</i>	
PLOS ONE — коллекция научных журналов в открытом доступе	https://journals.plos.org/plosone/ <i>Открытый ресурс</i>	
Polpred.com. Обзор СМИ.	Polpred.com Обзор СМИ Доступ с компьютеров университета. Удаленный доступ — через личную регистрацию на компьютерах университета	

8.4. List of the information technologies used in the educational process of the course (module)

№	A platform for e-learning and distance learning technologies	Name of the electronic course, authors, URL адрес	E-course implementation model
1	<i>Moodle</i>	3 course English medium Neurology and neurosurgery (author: Artemova N.A.) https://edu.nsmu.ru/course/view.php?id=610	mixed learning E-course+,

2	Moodle	4 course General Medicine Neurology and neurosurgery (author: Artemova N.A.) https://edu.nsmu.ru/course/view.php?id=726	mixed learning E-course+,
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8.5. List of software and information reference systems. In the implementation of the educational process, students and teaching staff 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 base necessary for the implementation of the educational process

№	Наименование учебного кабинета	Месторасположение учебного кабинета	Перечень основного оборудования учебного кабинета
1	Учебная аудитория для проведения занятий лекционного типа № 2511 административный учебный корпус, 5 этаж	163000, г. Архангельск, просп. Троицкий, д. 51	а) <i>перечень основного оборудования:</i> Комплект учебной мебели (столы, стулья, экран, доска) рабочее место преподавателя, рабочие места для обучающихся на 190 мест. б) <i>наборы демонстрационного оборудования</i> моноблок, проектор, экран в) <i>перечень учебно-наглядных пособий:</i> таблицы, схемы
2	Учебная аудитория для занятий семинарского типа, групповых и индивидуальных консультаций, текущего контроля и промежуточной аттестации № 16, 4 этаж Договор № 710 от 26.09.2017года об организации практической подготовки обучающихся между ФГБОУ ВО СГМУ (г. Архангельск) Минздрава России и ГБУЗ Архангельской области «Первая городская клиническая больница им. Е.Е. Волосевич». Срок действия Договора – 5 лет. Оборудование согласно Приложению № 3 к Договору.	163001, Архангельская область, г. Архангельск, ул. Суворова, д. 1,	а) <i>перечень основного оборудования:</i> Комплект учебной мебели (столы, стулья, экран, доска) рабочее место преподавателя, рабочие места для обучающихся на 14 мест. б) <i>наборы демонстрационного оборудования</i> ноутбук, проектор в) <i>перечень учебно-наглядных пособий:</i> Наглядные пособия, раздаточный материал к практическим занятиям по всем темам дисциплины, схемы по темам занятий, неврологические молотки, медицинская кушетка
3	Учебная аудитория для занятий семинарского типа, групповых и индивидуальных консультаций, текущего контроля и промежуточной аттестации № 18, 1 этаж акушерско-гинекологический корпус	163045, Архангельская область, г. Архангельск, пр. Ломоносова, д. 292,	а) <i>перечень основного оборудования:</i> Комплект учебной мебели (столы, стулья, экран, доска) рабочее место преподавателя, рабочие места для обучающихся на 14 мест.

	<p>Договор № 550 от 05.05.2017 года об организации практической подготовки обучающихся между ФГБОУ ВО СГМУ (г. Архангельск) Минздрава России и ГБУЗ Архангельской области «Архангельская областная клиническая больница». Срок действия Договора – 5 лет. Оборудование согласно Приложению № 3 к Договору.</p>		<p><i>б) наборы демонстрационного оборудования</i> ноутбук, проектор <i>в) перечень учебно-наглядных пособий:</i> Наглядные пособия, раздаточный материал к практическим занятиям по всем темам дисциплины, схемы по темам занятий, неврологические молотки, медицинская кушетка</p>
4	<p>Учебная аудитория для занятий семинарского типа, групповых и индивидуальных консультаций, текущего контроля и промежуточной аттестации № 19, 1 этаж акушерско-гинекологический корпус Договор № 550 от 05.05.2017 года об организации практической подготовки обучающихся между ФГБОУ ВО СГМУ (г. Архангельск) Минздрава России и ГБУЗ Архангельской области «Архангельская областная клиническая больница». Срок действия Договора – 5 лет. Оборудование согласно Приложению № 3 к Договору.</p>	<p>163045, Архангельская область, г. Архангельск, пр. Ломоносова, д. 292</p>	<p><i>а) перечень основного оборудования:</i> Комплект учебной мебели (столы, стулья, экран, доска) рабочее место преподавателя, рабочие места для обучающихся на 14 мест. <i>б) наборы демонстрационного оборудования</i> ноутбук, проектор <i>в) перечень учебно-наглядных пособий:</i> Наглядные пособия, раздаточный материал к практическим занятиям по всем темам дисциплины, схемы по темам занятий, неврологические молотки, медицинская кушетка</p>

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 **Psychiatry, medical psychology**

Field of training **31.05.01 General Medicine**

Year (s) of study / term (s) **4 / 7,8**

Form of the interim assessment **Examination**

Department **of psychiatry and medical psychology**

Discipline workload **180** (academic hours) / **5** (credits)

Approved at the department meeting

Minutes № 12

June 11th 2021

Head of the department



Soloviev A.G.

Author and compiler:

Belova Olga Sergeevna, Candidate of Medical Sciences, Associate professor at the
Department of psychiatry and medical psychology

Arkhangelsk, 2021

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

The program is drawn up following the requirements of the Federal State Education Standard (FSES) in the training field:

Discipline refers to the base of the professional cycle. The program is developed following the requirements of Federal State Education Standard for higher education in the field of 31.05.01 «General medicine».

Teaching of the discipline "Psychiatry, Medical Psychology" is held on 3-4th year, since the students have the basic knowledge of psychology and pedagogy, normal anatomy and physiology, pathological anatomy and physiology, pharmacology, internal medicine, neurology. The education system of the future doctors of psychiatry and medical psychology is studied in close relationships with other clinical disciplines, the base part of the professional cycle. It is estimated labor input in 5 credits.

2. Goal and tasks of the mastering of the discipline

The basis of the close connection between psychiatry and medical psychology are common object of study, a common understanding of mental illnesses, and manifestation of disorders in the reflection of the real world as a consequence of the disorganization of behavior or changes.

The goal of mastering the discipline is to prepare students to carry out professional activities in the field of general medical practice.

Tasks of the discipline:

1. formation of knowledge about the symptoms of the main psychopathological conditions for timely referral to a specialist for consultation, emergency care
2. formation of skills to establish professionally competent psychological relationships with patients, including those with various types of mental pathology
3. formation of skills of psychotherapeutic conversation and professional communication based on professionally important qualities of a specialist: empathy, tolerance, self-control, attentiveness, politeness
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)-№	
UC-1 is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions	AI-1.1 Performs critical analysis of information based on the system approach AI-1.2. Identifies problem situations based on critical analysis AI-1.3. Develops an action strategy for solving problem situations based on systemic and interdisciplinary approaches
UC-9 Able to use basic defectological knowledge in social and professional spheres	AI-9.1. Applies effective communication and creates a tolerant environment when interacting with persons with disabilities and persons with disabilities in social and professional activities AI-9.2. Provides medical, social and organizational support to persons with disabilities and persons with disabilities when they receive medical care
General professional competencies (GPC) -№	
GPC-7. Able to prescribe treatment	AI-7.1. Is able to develop a treatment plan for the

and monitor its effectiveness and safety	<p>disease and the patient's condition in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care.</p> <p>AI-7.2. Is able to prevent or eliminate complications, side effects, undesirable reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of medicines and (or) medical devices, non-drug treatment.</p> <p>AI-7.3. Has the skills to assess the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition.</p>
Professional competencies *(PC)- №	
PC-3. Ability and readiness to manage and treat patients with various nosological forms	<p>AI-3.1. Is able to draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>AI-3.2. Prescribes medicines, medical devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>AI-3.3. Prescribes non-drug treatment, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>ID-3.4. Has an algorithm for providing palliative care in interaction with specialist doctors and other medical professionals.</p> <p>ID-3.5. Is able to prescribe personalized treatment of the patient, including pregnant women, elderly and senile patients; to conduct physiological pregnancy, to deliver.</p> <p>ID-3.6. Applies medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care.</p>

*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 5 credits.

Type of the academic work	Total hours	Term	
		7	8
Students' contact work with the teacher (total)	74,3	40	34,3
Including:			
Lectures (L)	24	16	8
Seminars (Sem.)			
Practical classes (PC)			
Clinical practicals (CP)	48	24	24
Laboratory-based practicals (LBP)			
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)	72	32	40
Examination control (EC)	33,7		33,7
Total discipline workload	180/5	108	72

5. Course content:

5.1. Contents of the sections of the course

No	Name of the course section	Content of the section
1	Medical psychology	<ol style="list-style-type: none"> 1. The object and purpose of medical psychology. The main directions in psychology. The role of psychological knowledge in the practical work of a doctor. 2. Analysis of the clinical and psychological assessment of the mental processes in general practice and psychiatry. 3. Analysis of the clinical and psychological assessment of personality in general practice and psychiatry. Rehabilitation potential of the individual. 4. Personality and disease: psychogenic, psychosomatic and somatic diseases. 5. Social and psychological aspects of clinical (medical) psychology. Fundamentals of relations and communication in the clinic. The psychology of the therapeutic process in general practice and psychiatry.
2	General psychopathology	<ol style="list-style-type: none"> 1. The theoretical and organizational questions of psychiatry. Common questions of diagnostics and treatment of mental disorders 2. The concept of symptoms and syndromes in psychiatry, nosological specificity of symptoms and syndromes. Levels (grades) of mental disorders (neurotic, psychotic). The concept of productive and negative (the deficit) symptoms. 3. Disorders of sensation, perception, memory,

		thinking, intellect, emotion, volition, consciousness
3	Mental Diseases	<ol style="list-style-type: none"> 1. Classification of mental disorders. The main variants of mental illness (continuous, progressive, regredient, recurrence, phase, paroxysmal, undulating). The historical principles of classification of mental diseases in Russia 2. Main groups of disorders according to the International Classification of Diseases (ICD-11).
4	Narcology	<ol style="list-style-type: none"> 1. General Issues of Addiction. The concept of addiction as a mental disorder. Substance abuse treatment, principles of treatment and kinds of prevention of diseases. 2. Mental and behavioral disorders due to use of alcohol. 3. Drug and substance abuse.

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1	Medical psychology	6			12			18	36
2	General psychopathology	6			12			18	36
3	Mental Diseases	6			12			18	36
4	Narcology	6			12			18	36
	Total hours	24			48			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	Medical psychology	Online lesson in Moodle course	Test
2	General psychopathology	Online lesson in Moodle course	Test
3	Mental Diseases	Online lesson in Moodle course	Test
4	Narcology	Online lesson in Moodle course	Test

7. Forms of control

7.1. Current forms of control

- oral (an interview, a report)

- 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 (pass/fail test, examination)

Stages of the interim assessment

Stages of examination (pass/fail test)

1. Stage – Moodle Test
(name of the stage)
2. Stage – Oral Examination
(name of the stage)
3. Stage - _____
(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. Belova O.S., Soloviev A.G. General Psychopathology: the Signs and Symptoms of Mental and Behavioral Disorders / O.S. Belova, A.G. Soloviev. – Archangelsk: Northern State Medical University, 2020. – 101 p. [English]

8.2. Supplementary literature

1. Gale encyclopedia of mental disorders/ Ellen Thackery, editor. 2003. 604p. [English]
2. Hibbert, Allison. Rapid Psychiatry / Allison Hibbert, Alice Godwin, Frances Dear. 2004. 169p. [http://ncpz.ru/siteconst/userfiles/file/englit/A.%20Hibbert,%20A.%20Godwin,%20F.%20Dear%20-%20Rapid%20Psychiatry%20\(PDF,%20823%20Kb\).pdf](http://ncpz.ru/siteconst/userfiles/file/englit/A.%20Hibbert,%20A.%20Godwin,%20F.%20Dear%20-%20Rapid%20Psychiatry%20(PDF,%20823%20Kb).pdf) [English]
3. Essentials of psychiatry. Jerald Kay. Allan Tasman. 2006. 1092p. http://www.ebook3000.com/Essentials-of-Psychiatry--Jerald-Kay--Allan-Tasman_90409.html [English]
4. Psychiatry Made Ridiculously Simple. Jefferson Nelson, William Good, Michael Ascher. 2016. 96p. [English]

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

№	Resources	URL address	Resource Annotation
1	World Health Organization	http://www.who.int/	International website of WHO
2	PubMed Central (PMC)	http://www.ncbi.nlm.nih.gov/pmc/	US National library of medicine
3	BioMed Central (London)	biomedcentral.com	Open access journals publishing
4	Directory of Open Access Journals (DOAJ)	https://doaj.org/	Open access journals publishing
5	Open archive of Tromsø University (Norway)	http://munin.uit.no/	Open research archive

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	3-4 course Psychiatry and Medical Psychology, Soloviev A.G., Belova O.S., Mitkevich V.A., Paramonov A.A., https://edu.nsmu.ru/course/view.php?id=1116	Web support

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

During the educational process, students and teaching staff use the following software: operating system - MS Windows Vista Starter, MS Windows Prof 7 Updr; office suite - MS Office 2007; other software - 7-zip, AdobeReader, Kaspersky Endpoint Security

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
1371 2128 1358 1359 1362	учебные аудитории для проведения клинических практических занятий	СГМУ, главный корпус, пр.Троицкий, 51, 3 этаж	30-50 посадочных мест Мультимедийный проектор
1349	Тренинговый зал	СГМУ, главный корпус, пр.Троицкий, 51, 3 этаж	16 посадочных мест
	Учебная аудитория для проведения клинических практических занятий	ПНД, Ломоносова 271, 1 этаж	30 посадочных мест Мультимедийный проектор, компьютерный класс на 12 посадочных мест
Студенческая	Учебная аудитория для проведения клинических практических занятий	ГБУЗ АО АКПБ, пос.Талаги,31	28 посадочных мест

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 **Infectious diseases**

Field of training **31.05.01 "General Medicine"**

Year of study / term(s) **4,5 / 8,9,A**

Form of the interim assessment **Exam**

Department **of infectious diseases**

Discipline workload: **324** (academic hours) / **9** (credits)

Approved at the department meeting

Minutes No. 1

June 15th 2021

Head of the department



O.V. Samodova

Author and compiler:

Krieger E.A., Cand. of Science., MPH

Associate Professor at the Department of infectious diseases

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.

Disciplines of the curriculum based on the content of this: anatomy, physiology, biochemistry, microbiology, public health and health care, pharmacology, internal medicine.

The discipline is realized in the structure of the following types of professional activity tasks defined by the curriculum: diagnostic, management and prevention of infectious diseases.

2. Goal and tasks of the mastering of the discipline

Goal:

The goal of the discipline is to prepare students for the implementation of professional activities in the field of infectious diseases, which implies competencies in diagnostic, treatment and prevention of infectious diseases.

Objectives:

1. to develop the motivation and the skills of lifelong learning and the maintenance of competence in keeping with the needs of the healthcare system;
2. to obtain knowledge on diagnostic, treatment and prevention of infectious diseases;
3. to develop the clinical skills required to diagnose, treat and prevent infectious diseases;
4. to develop the ability to apply humanistic values in delivery of health care.

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
GPC-5. Able to assess morphofunctional, physiological conditions and pathological processes in the human body to achieve professional goals	ID-2. Determines and evaluates morphofunctional, physiological conditions and pathological processes in the human body ID-3. Uses clinical, laboratory and functional diagnostic methods to achieve professional goals ID-4. Analyzes the results of clinical, laboratory and functional diagnostics to assess morphofunctional, physiological conditions and pathological processes in the human body
GPC-6. Able to organize care for patients, to provide primary health care, to organize work and professional decision making in critical conditions at the pre-hospital level, as well as emergency medical intervention during epidemics and in mass casualty situations	ID-3. Provides emergency medical care to patients in life-threatening conditions, including clinical death ID-4. Uses the algorithm of primary health care in case of emergency, epidemics and in mass casualty situations
GPC-7. Able to prescribe treatment and to monitor its effectiveness and safety	ID-1. Develops a management plan of a disease and a patient's condition in accordance with the rules of providing medical care, clinical recommendations, taking into account the standards of medical care ID-2. Prevents or eliminates complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic interventions, use of medications and (or) medical devices, non-pharmaceutical treatment ID-3. Masters the skills of assessment of effectiveness and safety of medications, medical devices and therapeutic feeding
PC-1. Ability and willingness to implement awareness-raising activities, to educate patients and medical workers in order to prevent spread of diseases, to provide early diagnosis, identification of the causes and conditions led to its occurrence and development	ID-4. Masters the skills of implementation of anti-epidemic measures in infected areas ID-5. Identifies medical indications for the implementation of restrictive measures (quarantine) and indications for consulting with highly specialized doctors

PC-2. Ability and willingness to examine a patient to diagnose a disease	ID-1. Asks for patients' complaints, collects the details of anamnesis vitae, anamnesis morbi, analyzes the information received, performs physical examination of a patient (examination, palpation, percussion, auscultation) and interprets the results ID-2. Masters the skills of identification of the main pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with the current international statistical classification of diseases and health-related problems ID-3. Justifies the necessity and number of laboratory and instrumental tests in accordance with the current rules of providing medical care, clinical recommendations (treatment protocols), taking into account the standards of medical care and interprets the results
PC-3. Ability and willingness to manage and treat patients with various nosological forms of diseases	ID-1. Develops a treatment plan of a disease and a patient's condition, taking into account the diagnosis, the age of the patient, the clinical course of the disease in accordance with the rules of providing medical care, clinical recommendations (treatment protocols), taking into account the standards of medical care ID-2. Prescribes medications, medical devices and therapeutic feeding, taking into account the diagnosis, age and clinical course of the disease in accordance with the rules of providing medical care, clinical recommendations (treatment protocols), taking into account the standards of medical care ID-6. Uses medical devices in accordance with the rules of providing medical care, clinical recommendations (treatment protocols), taking into account the standards of medical care

Professional competencies are established on the basis of the professional standard of a general practitioner (district therapist), approved by order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017 N 293n "On the approval of the professional standard" General practitioner (district therapist) ".

4. The scope of the discipline (module) and types of training:

The total workload of the course is 9.0 credit units.

Type of the academic work	Total hours	Term		
		8	9	A
Students'contact work with the teacher (total)	146,3	44	44	58,3
Including:				
Lectures (L)	48	16	16	16
Seminars (Sem.)				
Practical classes (PC)				
Clinical practicals (CP)	96	28	28	40
Laboratory-based practicals (LBP)				
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)	144	64	28	52
Examination control (EC)	33,7			33,7
Total discipline workload	324/9	108	72	144

5. Course content:

5.1. Contents of the sections of the course

No.	The name of the course section	Content of the section
-----	--------------------------------	------------------------

1	Bacterial infections.	<p>Principles of diagnostic, treatment, prevention and control of bacterial infections.</p> <p>Diarrheal diseases. Typhoid fever. Salmonellosis. Shigellosis. E. coli infection. Food poisoning. Botulism. Cholera.</p> <p>Droplet infections. Meningococcal infections. Diphtheria. Scarlet fever. Pertussis.</p> <p>Zoonoses. Leptospirosis. Yersiniosis. Tetanus. Anthrax. Plague.</p>
2	Viral infections.	<p>Principles of diagnostic, treatment, prevention and control of viral infections.</p> <p>Acute viral diarrhea. Rotavirus infection. Viral hepatitis with fecal-oral transmission (hepatitis A and E).</p> <p>Enterovirus infection. Polyomyelitis.</p> <p>Parenteral and sexually transmitted diseases. Viral hepatitis B, C, D. HIV infection. AIDS-related diseases.</p> <p>Respiratory infections. Herpes infection (chicken pox, shingles, infectious mononucleosis). Influenza. Upper respiratory tract infections (parainfluenza, rhinovirus infection, RS-virus infection, adenovirus infection, coronavirus infection).</p> <p>Measles. Rubella. Mumps.</p> <p>Zoonoses. Rabies. Yellow Fever.</p> <p>Haemorrhagic fevers. Ebola hemorrhagic fever. Lassa hemorrhagic fever. Marburg hemorrhagic fever. Dengue fever.</p>
3	Parasitic infections.	<p>Principles of diagnostic, treatment, prevention and control of parasitic infections.</p> <p>Parasitic infections.</p> <p>Helminthosis. <i>Nematosis.</i> Ascariasis. Enterobiasis. Filariasis. <i>Cestodosis.</i> Diphyllbothriasis. Taeniasis. Echinococcosis. <i>Trematodoses.</i> Opisthorchiasis. Fascioliasis.</p> <p>Parasitosis. Malaria. Toxoplasmosis.</p>

5.2. Sections and types of studies

No. p / p	The name of the discipline section	L	S	P	CP	LBP	SBP	UW	Total hours
1	Bacterial infections.	21			42			40	103
2	Viral infections.	25			44			40	109
3	Parasitic infections.	2			10			64	76

5. 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	Bacterial infections	Cognitive level	<ul style="list-style-type: none"> ✓ mastering an online course on the COURSERA ✓ preparation of reports for presentation at CP(meetings in ZOOM, Teams, BigBlueButton) ✓ doing cases in Moodle 	<p>Testing</p> <p>Presentation of the report and its assessment by the teacher</p> <p>Case assessment</p>

			✓ doing quizzes in Kahoot	Testing
		Reproductive level	✓ to develop a clinical case and present clinical issues in the context of a patient's situation for demonstrating clinical decision-making ✓ to develop a differential diagnosis (comparison) tables ✓ making an algorithm of a disease diagnostic & management	Presentation of the report and its assessment by a teacher Tables assessment by a teacher Presentation of an algorithm
		Creative level	✓ analysis of statistical and empirical data, drawing conclusions on the basis of the analysis	Presentation of the report at scientific meetings
2	Viral infections	Cognitive level	✓ mastering an online course on the COURSERA ✓ preparation of reports for presentation at CP (meetings in ZOOM, Teams, BigBlueButton) ✓ doing cases in Moodle ✓ doing quizzes in Kahoot	Testing Presentation of the report and its assessment by the teacher Case assessment Testing
		Reproductive level	✓ to develop a clinical case and present clinical issues in the context of a patient's situation for demonstrating clinical decision-making ✓ to develop a differential diagnosis (comparison) tables ✓ making an algorithm of a disease diagnostic & management	Presentation of the report and its assessment by a teacher Tables assessment by a teacher Presentation of an algorithm
		Creative level	✓ analysis of statistical and empirical data, drawing conclusions on the basis of the analysis	Presentation of the report at scientific meetings
3	Parasitic infections	Cognitive level	✓ mastering an online course on the COURSERA ✓ preparation of reports for presentation at CP (meetings in ZOOM, Teams, BigBlueButton) ✓ doing cases in Moodle ✓ doing quizzes in Kahoot	Testing Presentation of the report and its assessment by the teacher Case assessment Testing
		Reproductive level	✓ to develop a clinical case and present clinical issues in the context of a patient's situation for demonstrating clinical decision-making ✓ to develop a differential diagnosis (comparison) tables ✓ making an algorithm of a disease diagnostic & management	Presentation of the report and its assessment by a teacher Tables assessment by a teacher Presentation of an algorithm
		Creative level	✓ analysis of statistical and empirical data, drawing conclusions on the basis of the analysis	Presentation of the report at scientific meetings

7. Forms of control

7.1. Current forms of control

- oral (an interview, a report, presentations of report)
- written (assignments, cases and testing in an electronic course in Moodle).

A theme list of abstracts, essays, projects, typical test tasks, typical situational tasks, etc. are given in Appendix No. 4 "Evaluation Tools" to the work program.

7.2. Forms of the interim assessment: examination

Stages of the interim assessment

1. Stage - multiple choice test (50 questions in accordance with MCI screening test)
2. Stage – discussion of theoretical questions
3. Stage – clinical cases in accordance with multidisciplinary approach

Questions for a pass/fail test, exam questions and topics of cases are shown at the Appendix No 4 "Evaluation Tools" to the work program.

The exam can be held with use of electronic cases in a face-to-face or remote format.

8. Library and information materials of the course

8.1. Compulsory literature

1. Ghai Essential Pediatrics / ed. V.K. Paul, A. Bagga. – 8d ed. - New Delhi: CBS Publishers and distributors, 2014. – 783 p.
2. Harrison's Principles of internal medicine. Vol. I: учебное пособие/ ed. D. L. Longo. -19th ed. -New York: Mc Graw Hill : Medical, 2015. - 1796 p.
3. Pediatric infectious diseases [Электронный ресурс] : учебное пособие / Е. А. Krieger, О. V. Samodova. - Архангельск : Изд-во Северного государственного медицинского университета, 2018. - 114 с.

8.2. Supplementary literature:

1. J. Crawley, C. Chu, G. Mtove, et al. Malaria in children. Lancet Infectious Diseases. 2010; 375: 1468–1481.
2. H. Feldmann, T.W. Geisbert. Ebola haemorrhagic fever. Lancet Infectious Diseases. 2011; 377: 849–862.
3. J.B. Harris, R.C. LaRocque, F. Qadri, et al. Cholera. Lancet Infectious Diseases. 2012; 379: 2466–2476.
4. S.A. Hughes, H. Wedemeyer, P.M. Harrison, et al. Hepatitis delta virus. Lancet Infectious Diseases. 2011; 378: 73-85.
5. N. Kamar, R. Bendall, F. Legrand-Abravanel, N. Xia, et al. Hepatitis E. Lancet Infectious Diseases. 2012; 379: 2477-2488.
6. W.J. Moss, D.E. Griffin. Measles. Lancet Infectious Diseases. 2012; 379: 153–164.
7. Netter's infectious diseases. / ed. E. C. Jong. - Philadelphia: Elsevier/Saunders, 2012. - 602 p.

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

Resource name	Url	Resource annotation
Electronic library systems (electronic libraries)		
Electronic library of NSMU	http://lib.nsmu.ru/lib/	educational, educational-methodical and scientific literature
EBS "Student's Consultant": Medicine. Healthcare. Humanities and social sciences. Natural Sciences	http://www.studentlibrary.ru/ http://www.studmedlib.ru/ http://www.medcollegelib.ru/	sets of educational and scientific literature on medicine, health care, natural, humanitarian and social sciences
EMB "Doctor's Consultant"	http://www.rosmedlib.ru	practical guides, reference books, monographs, recommendations and other publications
MedOneEducation -Электронная библиотека медицинских учебниковиздательства «Thieme»	http://medone- education.thieme.com/	online books in English
Professional databases		
Database of scientific journals. Scientific electronic library Medline	https://pubmed.ncbi.nlm.nih.gov/	PubMed comprises more than 33 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full text content from PubMed Central and publisher web sites.
WHO publications. Database "GlobalIndexMedicus".	https://www.who.int/ru	information materials, reports from WHO, etc.

World health organization		
Database «Web of Science» (WOS)	https://www.webofscience.com	biomedical literature, life science journals, and online books
Database «Scopus»	https://www.scopus.com/	biomedical literature, life science journals, and online books
Wiley Online Library	https://onlinelibrary.wiley.com/	biomedical literature, life science journals, and online books
Information reference systems		
reference system Federal Electronic Medical Library (FEMB)	http://femb.ru/	State Pharmacopoeia of the Russian Federation, clinical guidelines (treatment protocols), scientific and educational literature, dissertations and abstracts
Other resources		
Rehydration project	http://rehydrate.org	Clear, practical advice on preventing and treating diarrhoeal diseases. Guidelines from medical authorities on diagnosis, treatment, symptoms, causes and risk factors, tests, training tips, feedback from the field, alternative medicine and much more for health professionals.
Medscape	http://www.medscape.org/	Medscape is a web resource for physicians and health professionals. It features peer-reviewed original medical journal articles, CME (Continuing Medical Education), a customized version of the National Library of Medicine's MEDLINE database, daily medical news, major conference coverage, and drug information—including a drug database (Medscape Drug Reference, or MDR) and drug interaction checker.
UNICEF official website	http://www.unicef.org	UNICEF works with the United Nations and its agencies to make sure that children are on the global agenda. UNICEF strikes a balance between thorough research and practical solutions for children.

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

No.	EO and bunker site	Name of the e-course, authors, URL address	E-course implementation model
1	EOS MOODLE	https://edu.nsmu.ru/course/view.php?id=188 Krieger E.A. Samodova O.V. Agafonov V.M. Burmagina I.A.	+ EC

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

In the implementation of the educational process, students and faculty use the following software: **operating system** – MS Windows Vista Starter, MS Windows Prof 7 Upgr; **office suite** - MSOffice 2007; other **software** - 7-zip, Adobe Reader, Kaspersky Endpoint Security.

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	Aud. No. 111/112 <i>Classroom for seminar-type classes, group and individual consultations</i>	Auditorium of the Department of Infectious diseases, Center of infectious diseases: Arkhangelsk. Samoilo str. 17	12 seats Multimedia projector - 1, laptop - 1 pc.
2	Aud. No. 14 <i>Classroom for seminar-type classes, group and individual consultations</i>	Auditorium of the Department of Infectious diseases, Center of infectious diseases: Arkhangelsk. Samoilo str. 17	20 seats, TV - 1

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 "Surgical diseases, urology"

Field of training **31.05.01 General Medicine**

Year (s) of study 4,5,6

Form of the interim assessment exam (11 semester)

Department Institute of Surgery

Discipline workload 540 academic hours / 15 credits

Approved at the department meeting

Institute of Surgery

Protocol No. _____

June 15th 2021

Head of the department Duberman B.L.

Author and compiler: Mizgirev D.V., Doct of Med.Sci., Ass. Prof., Assistant
Rybakova E.V., Assistant Schegoleva O.S.

Arkhangelsk, 2021

1. The place of discipline in the structure of the educational program

The program was compiled in accordance with the requirements of the Federal State Educational Standard in the direction of preparation 31.05.01 "General Medicine".

The discipline "Surgical diseases, urology" refers to the basic part of the professional cycle of disciplines, is studied in the eighth, ninth, tenth and eleventh semesters.

Curriculum disciplines preceding the study of this one:

- in the cycle of humanitarian and socio-economic disciplines (philosophy, bioethics; psychology and pedagogy; jurisprudence, history of medicine; Latin; foreign language);
- in the cycle of mathematical, natural sciences, biomedical disciplines (physics, mathematics; medical informatics; chemistry; biology; biochemistry, human anatomy; histology, embryology, cytology, normal physiology; pathological anatomy, pathophysiology; microbiology, virology; immunology, clinical immunology, pharmacology);
- in the cycle of medical professional and clinical disciplines (medical rehabilitation; hygiene; public health, health care, health economics; propaedeutics of internal diseases, general surgery, operative surgery and topographic anatomy, emergency medicine.

Curriculum disciplines based on the content of this one: "Minimally invasive and endoscopic surgery."

The discipline is implemented within the framework of the following types of tasks of professional activity, defined by the curriculum:

- preventive
- diagnostic
- research

2. Goal and tasks of the mastering of the discipline

The purpose of mastering the discipline: preparing students for the implementation of professional activities in the field of surgical diseases and urology

Discipline tasks:

1. Formation of knowledge about the etiology, pathogenesis, clinical signs, methods of treatment and prevention of surgical and urological diseases;
2. Formation of skills for the correct formulation of a preliminary diagnosis, differential diagnosis, referral of a patient for examination and substantiation of the final clinical diagnosis, treatment prescription;
3. Formation of skills to provide first aid in patients with acute surgical and urological pathology, as well as with injuries and wounds in peacetime

3. List of the planned learning outcomes of the discipline 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 Competence (GPC) - 4. Able to use medical devices provided for by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis	Achievement Indicator (AI) - 1. Owns modern methods of using medicines, medical devices and clinical nutrition for diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment

	<p>protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>AI-2. Knows how to justify the choice of laboratory and instrumental methods for examining a patient</p> <p>AI-3. Has the skills to evaluate the results of laboratory and instrumental methods of examining a patient in order to establish a diagnosis</p>
GPC-7. Able to prescribe treatment and monitor its effectiveness and safety	<p>AI-1. Able to develop a treatment plan for the disease and the patient's condition in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care</p> <p>AI-2. Able to prevent or eliminate complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment</p> <p>AI-3. Has the skills to assess the effectiveness and safety of the use of medicines, medical devices and clinical nutrition</p>
PC-2. Ability and willingness to conduct a patient examination to establish a diagnosis	<p>AI-1. Able to collect complaints, anamnesis of life and disease of the patient and analyze the information received, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results</p> <p>AI-2. Has the skills to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the current international statistical classification of diseases and health-related problems</p> <p>AI-3. Able to justify the need and scope of laboratory and instrumental examination of the patient in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care and interpret its results</p> <p>AI-4. Carries out early diagnosis of diseases of internal organs and conducts differential diagnosis of diseases of internal organs from other diseases</p>
PC-3. Ability and willingness to manage and treat patients with various nosological forms	<p>AI-1. Able to draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, age of the patient, the clinical picture of the disease in accordance</p>

	<p>with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>AI-2. Prescribes medicines, medical products and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>AI-3. Prescribes non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>AI-6. Uses medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>
PC-5. The ability and readiness to provide medical care in an urgent and emergency form, ascertaining the biological death of a person	<p>AI-1. Able to identify clinical signs of conditions requiring medical attention in an emergency form</p> <p>AI-2. Performs emergency medical care in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care</p> <p>AI-3. Identifies conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing, requiring emergency medical care</p>
PC-9. Ability and readiness to maintain medical records and organize the activities of nursing staff at the disposal	<p>AI-2. Works with personal data of patients and information constituting a medical secret</p> <p>AI-4. Fills out medical documentation, including in electronic form, controls the quality of its maintenance</p> <p>AI-6. Uses in his work information systems in the field of healthcare and the information and telecommunication network "Internet"</p>

*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 15 credits.

Type of study work	Total hours	Semester
Contact work of students with the teacher (total)		
Including:		
Lectures (L)	96	8, 9, 10, 11
Seminars (Sem)		
Practical exercises (PE)		
Clinical Practice (CP)	190	8, 9, 10, 11
Laboratory studies (LS)		
Simulation practical exercises (SPE)	20	9, 10, 11
Contact work during the exam (CWDE)	0,3	11
Contact work during the test (PE)		9
Exam consultations (Cons)	2	
Coursework (Kont KR)		
Independent work (total) (IW)	198	8, 9, 10, 11
Control	33,7	
Total labor intensity (hours)	540	

5. The content of the discipline:**5.1. The content of the sections of the discipline**

No.	Name of the discipline section	Section content
1.	Abdominal surgery	1. Introduction. Methodology of diagnostics in surgery 2. The most important syndromes in surgery 3. Operation, postoperative period, its complications 4. Acute surgical diseases of the abdominal organs 5. Diseases of the stomach and intestines 6. Herniology 7. Coloproctology 8. Injury to the abdomen 9. Liver disease 10. Diseases of the spleen
2.	Urology	1. Semiotics of urological diseases. Methods of examination of urological patients. 2. Non-specific inflammatory diseases of the urinary system and male genital organs. 3. Urolithiasis. 4. Neoplasms of the urinary system and male genital organs. 5. Anomalies in the development of the urinary system and male genital organs. 6. Injuries of the urinary system and male genital organs.

3.	Cardiovascular Surgery	1. Surgical treatment of heart diseases (CAD, congenital and acquired defects, arrhythmias) 2. Diseases and injuries of the main and peripheral arteries 3. Diseases and injuries of the main and peripheral veins
4.	Thoracic Surgery	1. Purulent diseases of the lungs, pleura and mediastinum 2. Diseases of the diaphragm 3. Chest injury 4. Surgical diseases and injuries of the esophagus
5.	Surgical endocrinology	1. Diseases of the thyroid gland 2. Diseases of the adrenal glands 3. Diseases of the thymus

5.2. The number of hours allotted for the study of individual sections of the discipline and types of classes

No. p/n	Name of the discipline section	L	Sem	PE	CP	LS	SPE	IW	Total hours
1.	Abdominal surgery	52	-	-	95	-	5	86	238
2.	Urology	10	-	-	30	-	-	15	55
3.	Cardiovascular Surgery	10	-	-	20	-	5	18	53
4.	Thoracic Surgery	20	-	-	40	-	10	74	144
5.	Surgical endocrinology	4			5			5	14

6. The list of educational and methodological support for independent work of students in the discipline, including using the possibilities of e-learning, distance learning technologies (LMS Moodle)

No. p/n	Name of the discipline section	Types of independent work	Forms of control
1	Abdominal surgery	- Registration of the medical history of the supervised patient - testing in the moodle system - solving situational problems in the moodle system - creating presentations	- Medical history check - checking test results - checking situational tasks - evaluation of the report on the presentation
2.	Urology	- Registration of the medical history of the supervised patient - testing in the moodle system - solving situational problems in the moodle system	- Medical history check - checking test results - checking situational tasks - assessment of the presentation

		- creating a presentation	report
3.	Cardiovascular Surgery	- Registration of the medical history of the supervised patient - testing in the moodle system - solving situational problems in the moodle system - creating presentations	- Medical history check - checking test results - checking situational tasks - assessment of the presentation report
4.	Thoracic Surgery	- Registration of the medical history of the supervised patient - testing in the moodle system - solving situational problems in the moodle system - creating presentations	- Medical history check - checking test results - checking situational tasks - assessment of the presentation report
5.	Surgical endocrinology	- testing in the moodle system - solving situational problems in the moodle system - essay writing	- checking test results - checking situational tasks - Checking the abstract

7. Forms of control

7.1. Forms of current control

oral: interview, report, medical history protection, clinical analysis of the patient, analysis of multimedia presentations and slideshows;

written: checking tests, abstracts, abstracts, solutions to clinical situational problems, case histories.

An approximate list of topics for abstracts, reports, essays, tests, typical test tasks, typical situational tasks, etc. are given in Appendix No. 4 "Evaluation Tools" to the work program.

7.2. Forms of intermediate control (test, exam, term paper / course project, etc.)

Stages of interim certification

1 Stage - knowledge control - testing

2 Stage - certification of practical skills, control of clinical thinking - test with the participation of the patient

3 Stage - control of knowledge and practical skills

- solution of a clinical situational problem;

- description of the radiograph, ultrasonogram, computed tomography of a patient with a surgical or disease

Typical questions for the test and exam, an approximate list of topics for term papers / course projects, typical test tasks, typical situational tasks are given in Appendix No. 4 "Evaluation Tools" to the work program.

9. Maintenance of the course

9.1. The basic literature.

1. Manipal Manual of Surgery. 4th edition. K. Rajgopal Shenoy, Anitha Shenoy (Nileshwar). CBC Publishers & Distributors, 2014. – 1224 p., ill.
2. Bailey and Love's Short Practice of Surgery. 27th edition. CRC Press Taylor & Francis Group, 2018. – 1633 p.: ill.
3. A manual on Clinical Surgery. S. Das. 10th edition, Calcutta, 2008. – 650 p., ill.

8.2. Additional literature

1. Основы неотложной хирургической помощи [Электронный ресурс] : рук. для врачей общ. практики : в 2 т., Т.2 : Специальная часть/ под ред.: Р. Н. Калашникова, Э. В. Недашковского. -Архангельск: Изд-во СГМУ, 2014. -256 с- URL: http://nb.nsmu.ru/cgi-bin/irbis64r_11/cgiirbis_64.exe?LNG=&C21COM=F&I21DBN=ELIB_READER&P21DBN=ELIB&Z21ID=103437543067097489-73330&Image_file_name=%5C-RES%5C%5Ccosnovt2.pdf&mfn=510
- 2.Рехачев В. П. Острый живот [Электронный ресурс] : монография/ В. П. Рехачев. -3-е изд., доп. и перераб. - Архангельск: Изд-во Северного государственного медицинского университета, 2017. -240 с.- URL: 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/P%2045-190319
- 3.Рехачев В. П. Острый аппендицит [Электронный ресурс] : монография/ В. П. Рехачев. - Архангельск: Изд-во Северного государственного медицинского университета, 2010. -194 с.- URL: 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/P%2045-927656
4. Эндохирургия при неотложных заболеваниях и травме [Электронный ресурс] : руководство/ под ред.: М. Ш. Хубутия, П. А. Ярцева. -Москва: ГЭОТАР-Медиа, 2014. -240 с.: ил.- URL: <http://www.rosmedlib.ru/book/ISBN9785970427484.html>, <http://www.studentlibrary.ru/book/ISBN9785970427484.html>
- 5.Предоперационный период: предоперационная оценка: подготовка к плановым хирургическим вмешательствам [Электронный ресурс] : практическое руководство/ М. В. Бунина, Головенко Е.Н., Ю. О. Лабутина ; ред. В. В. Самойленко. -Москва: ГЭОТАР-Медиа, 2009. -128 с.- URL: <http://www.studentlibrary.ru/book/ISBN9785970413234.html>
- 6.Кулезнёва Ю.В. Ультразвуковое исследование в диагностике и лечении острого аппендицита [Электронный ресурс]/ Ю. В. Кулезнёва, Р. Е. Израйлов, З. А. Лемешко. - Москва: ГЭОТАР-Медиа, 2014. -72 с.- URL: <http://www.studentlibrary.ru/book/ISBN9785970427033.html>
- 7.Лагун М.А. Курс факультетской хирургии в рисунках, таблицах и схемах [Электронный ресурс] : учеб. пособие/ М. А. Лагун, Б. С. Харитонов ; ред. С. В. Вертянкин. -Москва: ГЭОТАР-Медиа, 2016- URL: <http://www.studentlibrary.ru/book/ISBN9785970437834.html>
- 8.Черепанин А.И. Атлас осложнений хирургии грыж передней брюшной стенки [Электронный ресурс] : атлас/ А. И. Черепанин. -Москва: ГЭОТАР-Медиа, 2017. -208 с.: ил.- URL: <http://www.studentlibrary.ru/book/ISBN9785970440759.html>
- 9.Панкреатит [Электронный ресурс] : монография/ Н. В. Мерзликин [и др.] ; под ред. Н. В. Мерзликина. -Москва: ГЭОТАР-Медиа, 2014. -528 с.: ил.- URL: <http://www.rosmedlib.ru/book/ISBN9785970428474.html>, <http://www.studentlibrary.ru/book/ISBN9785970428474.html>
- 10.Панкреонекроз. Диагностика и лечение [Электронный ресурс]/ А. В. Шабунин [и др.]. - Москва: ГЭОТАР-Медиа, 2014. -96 с.: ил.- URL:

<http://www.rosmedlib.ru/book/ISBN9785970428252.html>

11. Кузнецов Н.А. Прогнозирование в плановой хирургии [Электронный ресурс] / Н. А. Кузнецов. - Москва: ГЭОТАР-Медиа, 2017. - 336 с. - URL: <http://www.studentlibrary.ru/book/ISBN9785970440056.html>
12. Калинин Р.Е. Клиническая анатомия системы воротной вены печени [Электронный ресурс] : практическое руководство / Р. Е. Калинин. - Москва: ГЭОТАР-Медиа, 2017. - 160 с. - URL: <http://www.studentlibrary.ru/book/ISBN9785970438060.html>
13. Семионкин Е.И. Атлас колопроктологических заболеваний [Электронный ресурс] : учебное пособие / Е. И. Семионкин, А. Ю. Огорельцев. - Москва: ГЭОТАР-Медиа, 2016. - 80 с. - URL: <http://www.rosmedlib.ru/book/ISBN9785970439906.html>, <http://www.studentlibrary.ru/book/ISBN9785970439906.html>
14. Альперович Б. И. Хирургия печени [Электронный ресурс] : Руководство для врачей / Б. И. Альперович. - Москва: ГЭОТАР-Медиа, 2013. - 352 с. - URL: <http://www.rosmedlib.ru/book/ISBN9785970425732.html>, <http://www.studentlibrary.ru/book/ISBN9785970425732.html>
15. Учебные материалы для подготовки к итоговому контролю по дисциплинам "Факультетская хирургия" и "Урология" [Электронный ресурс] : учебное пособие / С. М. Дыньков [и др.]. - 2-е изд., испр.. - Архангельск: Изд-во Северного государственного медицинского университета, 2019. - 175 с. - URL: http://nb.nsmu.ru/cgi-bin/irbis64r_11/cgiirbis_64.exe?LNG=&Z21ID=&I21DBN=ELIB&P21DBN=ELIB&S21STN=1&S21REF=3&S21FMT=fullweb&C21COM=S&S21CNR=20&S21P01=0&S21P02=1&S21P03=I=&S21STR=elb/Y%2091-062668
16. Боковой С.П. Неотложная урология (краткое руководство для врачей, клинических ординаторов и студентов), 2018. – 174 с.
17. Урология. Российские клинические рекомендации / под ред. Ю.Г.Аляева, П.В.Глыбочко, Д.Ю.Пушкаря. – М.: ГЭОТАР-Медиа, 2015. – 480 с.
18. Боковой С.П. Острые урологические синдромы: учебное пособие / С.П.Боковой. – Архангельск: Изд-во СГМУ, 2019. – 47с.
19. Жиборов Б.Н. Мужское бесплодие и хирургические заболевания органов половой системы. – 2018. - 297с.
20. Карпов Е.И. Урология и беременность. Методическое пособие. – 2017. – 103с.
21. Яблонский П.К., Петров А.С., Пищик В.Г., Атюков М.А. Оржешковский О.В. Спонтанный пневмоторакс: учеб. Пособие. – СПб.: Изд-во С.-Петербург. ун-та, 2013 – 42с.
22. Клинические рекомендации по диагностике и лечению больных опухолями средостения и вилочковой железы. Москва 2014. – 49с.
23. Респираторная медицина : руководство : в 3 т. / под ред. А. Г. Чучалина. — 2-е изд., перераб. и доп. — М. : Литтерра, 2017. — Т. 2. — 544 с. : ил. ISBN 978-5-4235-0263-8 (т. 2) ISBN 978-5-4235-0273-7 (общ.
24. Мельников М.В., Барсуков А.Е., Сусли П.А. и др. Пропедевтика заболеваний сосудов. // Учебное пособие под ред. М.В.Мельникова. - СПб: Береста, 2011.- 216 с.
25. Калинин Р.Е. Операции на сосудах. / Калинин Р.Е., Жеребятнева С.Р., Сучков И.А. - М.: ГЭОТАР-Медиа, 2015. – 120 с.
26. Carpentier, A. Carpentier's reconstructive valve surgery. / Carpentier A., Adams D., Filsoufi F. – Maryland: Elsevier Inc., 2010. – 354 с.
27. Dominik J. Heart Valve Surgery. / Dominik J., Zacek P. – Berlin: Springer-Verlag, 2010. – 414 с.
28. Мельников М.В., Барсуков А.Е., Сусли П.А. и др. Пропедевтика заболеваний сосудов. // Учебное пособие под ред. М.В.Мельникова. - СПб: Береста, 2011.- 216 с.
29. Мельников М.В. Острая артериальная непроходимость // Учебное пособие – СПб.: Издательство СЗГМУ, 2014. - 32 с.
30. Сосудистая хирургия [Электронный ресурс] : Национальное руководство. Краткое издание / Под ред. В. С. Савельева, А. И. Кириенко. - М. : ГЭОТАР-Медиа, 2015. -

<http://www.rosmedlib.ru/book/ISBN9785970434413.html>

31. Белов Ю.В. Руководство по сосудистой хирургии с атласом оперативной техники. – Изд. 2-е доп. – М.: ДеНово, 2011. – 463 с.
32. Белов Ю.В., Комаров Р.Н. Руководство по хирургии торакоабдоминальных аневризм аорты. М.: Изд.: МИА, 2010. – 464 с.
33. Петровский Б.В., Константинов Б.А., Нечаенко Н.А. Первичные опухоли сердца. М.: Медицина, 2000.
34. Гороховский Б.И. Аневризмы и разрывы сердца. М.: Медицинское информационное агентство, 2001.
35. Дземешкевич С.Л., Стивенсон Л.У. Болезни митрального клапана. М.: ГЭОТАР Медицина, 2000.
36. Сердечно-сосудистая хирургия. Под ред. Бураковский В.И., Бокерия Л.А. М.: Медицина, 1989.
37. Флебология. Руководство для врачей. Под ред. Савельева В.С. М.: Медицина, 2001.
38. Клиническая ангиология: Руководство / Под ред. А.В. Покровского. В 2 т. - М.: Медицина, 2004. - Т. 1. - 808 с., Т.2. - 888 с.
39. Сосудистая хирургия [Электронный ресурс] : Национальное руководство. Краткое издание / Под ред. В. С. Савельева, А. И. Кириенко. - М. : ГЭОТАР-Медиа, 2015. - <http://www.rosmedlib.ru/book/ISBN9785970434413.html>

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

No.	Resource name	URL address	Resource annotation
	Surgical diseases, urology		

Electronic educational resources*

Electronic library of NSMU	http://nsmu.ru/lib/ Access with a password provided by the library
EBS "Student's Consultant" HPE, SPO.Sets: Medicine. Healthcare. Humanities and social sciences. Natural Sciences	http://www.studentlibrary.ru/ http://www.studmedlib.ru/ http://www.medcollegelib.ru/ Access is activated through registration on any computer of the university.
EBS "Doctor's Consultant"	http://www.rosmedlib.ru Access with a password provided by the library.
NEL- National electronic library	http://neb.rf There are open access resources
Scientific electronic library eLIBRARY.RU	http://www.elibrary.ru Open resource
Federal Electronic Medical Library (FEMB)	http://feml.scsml.rssi.ru Open resource. Clinical guidelines (treatment protocols) are available.

University Information System "Russia"(UIS Russia).	uisrussia.msu.ru Access from university computers
Ministry of Health of the Russian Federation.Bank of documents	https://www.rosminzdrav.ru/ Open resource
World Health Organization	https://www.who.int/ru Open resource
Information system "Single window of access to information resources"	http://window.edu.ru/ Open resource
VIDAL drug guide	https://www.vidal.ru/ Open resource
Great Russian Encyclopedia	https://bigenc.ru/ Open resource
Garant.ruInformation and legal portal	http://www.garant.ru/ Limited access
Legal system "ConsultantPlus"	http://www.consultant.ru/ Access is provided in the electronic information room of the library (room 2317)
Official Internet portal of legal information	http://pravo.gov.ru/ Open resource
Electronic collection of medical textbooks of the Thieme publishing house.	http://medone-education.thieme.com/ Access from university computers by password
Database «Web of Science»	https://www.webofscience.com Access from university computers. Remote access - through personal registration under the IP address of the university
Elsevier Publishing	https://www.sciencedirect.com/ Open access journals
SpringerNature Publishing	https://link.springer.com/ Access from university computers
Scopus database	https://www.scopus.com/ Access from university computers
Publisher Royal Society of Chemistry	www.rsc.org/ There are open resources

PubMedCentral(PMC) - full-text archive of biomedical journals of the US National Library of Medicine	www.pubmedcentral.nih.gov Open resource
Open Archive of the University of Tromsø (Norway)	http://munin.uit.no/ Open resource
Magazines published by DeGruyterOpen	https://content.sciendo.com/ Open resource
Directory of Open Access Books (DOAB)	https://www.doabooks.org/ Open resource
Directory of Open Access Journals (DOAJ)	https://doaj.org/ Open resource
DatabaseEBSCO Open Dissertations	biblioboard.com/opendissertations Open resource
PLOS ONE— a collection of scientific journals in open access	https://journals.plos.org/plosone/ Open resource
Polpred.com. Media review.	Polpred.com Media Review Access from university computers. Remote access - through personal registration on the computers of the university

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

No.	EA and bunker site	Name of the e-course, authors, URL address	E-course implementation model
	Moodle	Surgical diseases, urology https://edu.nsmu.ru/course/view.php?id=1249	blended learning + EC

**In the EL and DOT platform column, indicate the name of the learning platform (Moodle, Medunet, Obrnet, a specific MOOC platform), in the column "Name of the e-course, authors, URL address" place a link to the resource, the exact name of the course, in the column "E-course implementation model" indicate information about the model being implemented - web support, blended learning + EC, blended learning EC +, exclusively online education.*

8.5. List of software and information reference systems.

In the implementation of the educational process, students and faculty use the following software: operating system - MSWindowsVistaStarter, MSWindowsProf 7 Upgr; office suite - MSOffice 2007; other software - 7-zip, AdobeReader, KasperskyEndpointSecurity

9. Logistics support of discipline

No.	Name of the study room	Location of the study room	List of the main equipment of the study room
1	Classroom for conducting lecture-type classes No. 2511, administrative	163000, Arkhangelsk, ave. Troitsky, 51	a) list of main equipment: A set of educational furniture (tables, chairs, a screen, a

	educational building, 5th floor		board) a teacher's workplace, workplaces for students for 190 seats b) sets of demonstration equipment monoblock, projector, screen c) a list of teaching and visual aids: schemes, tables
2	Classroom for seminar-type classes, group and individual consultations, current control and intermediate certification No. 99, 3rd floor Agreement No. 710 dated September 26, 2017 on the organization of practical training for students between the Federal State Budgetary Educational Institution of Higher Education of the NSMU (Arkhangelsk) of the Ministry of Health of Russia and the State Budgetary Institution of Health of the Arkhangelsk Region "First City Clinical Hospital named after I.I. HER. Volosevich. The term of the Agreement is 5 years. Equipment in accordance with Appendix No. 3 to the Agreement.	163001, Arkhangelsk region, Arkhangelsk, Troitsky Ave., 143	a) list of main equipment: A set of educational furniture (tables, chairs, a screen, a board) a teacher's workplace, workplaces for students for 14 places. b) sets of demonstration equipment laptop, projector c) a list of teaching and visual aids: Visual aids, handouts for practical exercises on all topics of the discipline, diagrams on the topics of classes, dummies
3	Training room for seminar-type classes, group and individual consultations, current control and intermediate certification No. 3, 3rd floor Agreement No. 710 dated September 26, 2017 on the organization of practical training for students between the Federal State Budgetary Educational Institution of Higher Education of the NSMU	163001, Arkhangelsk region, Arkhangelsk, Troitsky avenue, 143, bldg. 1	a) list of main equipment: A set of educational furniture (tables, chairs, a screen, a board) a teacher's workplace, workplaces for students for 14 places. b) sets of demonstration equipment laptop, projector c) a list of teaching and visual aids: Visual aids, handouts for practical exercises on all topics of the discipline,

	(Arkhangelsk) of the Ministry of Health of Russia and the State Budgetary Institution of Health of the Arkhangelsk Region "First City Clinical Hospital named after I.I. HER. Volosevich. The term of the Agreement is 5 years. Equipment in accordance with Appendix No. 3 to the Agreement.		diagrams on the topics of classes, dummies
4	<p>Training room for seminar-type classes, group and individual consultations, current control and intermediate certification</p> <p>No. 78, 5th floor</p> <p>Agreement No. 710 dated September 26, 2017 on the organization of practical training for students between the Federal State Budgetary Educational Institution of Higher Education of the NSMU (Arkhangelsk) of the Ministry of Health of Russia and the State Budgetary Institution of Health of the Arkhangelsk Region "First City Clinical Hospital named after I.I. HER. Volosevich. The term of the Agreement is 5 years. Equipment in accordance with Appendix No. 3 to the Agreement.</p>	163001 Arkhangelsk region, Arkhangelsk, embankment of the Northern Dvina, 125	<p>a) list of main equipment: A set of educational furniture (tables, chairs, a screen, a board) a teacher's workplace, workplaces for students for 14 places.</p> <p>b) sets of demonstration equipment laptop, projector</p> <p>c) a list of teaching and visual aids: Visual aids, handouts for practical exercises on all topics of the discipline, diagrams on the topics of classes, dummies</p>
5	Simulation class No. 414, educational building, 4th floor: Room for the treatment of surgical patients for skills development.	163001, Arkhangelsk, ave. Troitsky, 180	<p>List of teaching and visual aids: Visual aids, handouts for practical exercises on all topics of the discipline manipulation table msk-549-02-msk", laparoscopic simulator mounted on a mobile stand, virtual augmented reality simulator for basic endosurgical</p>

			simulation training, hybrid virtual simulation complex for practical skills in endosurgery "ensim-lpr.01, screen, medical cabinet MD 2 1670/ss , table, chair
6	Classroom for seminar-type classes, group and individual consultations, current control and intermediate certification No. 413, academic building, 4th floor (debriefing room)	163001, Arkhangelsk, ave. Troitsky, 180	<p>a) list of main equipment: A set of educational furniture (tables, chairs, a screen, a board) a teacher's workplace, workplaces for students for 18 seats.</p> <p>b) sets of demonstration equipment laptop, projector, whiteboard</p> <p>c) a list of teaching and visual aids: Visual aids, handouts for practical exercises on all topics of the discipline, a mannequin that imitates the torso of a child of 5 (five) years old, for teaching auscultation in various pathologies</p>
7	<p>Training room for seminar-type classes, group and individual consultations, current control and intermediate certification No. 3, 5th floor Agreement No. 710 dated September 26, 2017 on the organization of practical training for students between the Federal State Budgetary Educational Institution of Higher Education of the NSMU (Arkhangelsk) of the Ministry of Health of Russia and the State Budgetary Institution of Health of the Arkhangelsk Region "First City Clinical Hospital named after I.I. HER. Volosevich. The term of the Agreement is 5 years. Equipment in accordance with Appendix No. 3 to the Agreement.</p>	163001, Arkhangelsk region, Arkhangelsk, Troitsky Ave., 143, building 6.	<p>a) list of main equipment: A set of educational furniture (tables, chairs, a screen, a board) a teacher's workplace, workplaces for students for 16 places.</p> <p>b) sets of demonstration equipment laptop, projector, negatoscope</p> <p>c) a list of teaching and visual aids: Visual aids, handouts for practical classes on all topics of the discipline, diagrams on the topics of classes, cystoscopes, catheters, a set for trocar cystostomy, a collection of urinary stones.</p>

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In the wards of surgical departments are carried out:

- examinations of patients during clinical rounds of the department by the staff of the department
- curation of patients by students is carried out
- demonstrations of patients are held in the wards

Dressing and procedural rooms in surgical departments are used for classes, demonstration of patients, manipulations, dressings

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

Field of training **31.05.01 General Medicine**

Year (s) of study / term (s) 4, 5

Form of the interim assessment exam

Department Obstetrics and Gynecology

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

Approved at the department
meeting:

Minutes № 11

«11» June 2021

Head of the department

_____/Professor A. Baranov

Author and compiler:

Natalya G Istomina, MD, CSc (med.), Associate Professor

Maxim V Usynin, MD, CSc (med.), 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 (FSSES) 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:

C.1 - human, social and economic cycle (the Latin language, foreign language, pedagogy and psychology, public health, health-care organization, health economics);

C.2 - Mathematics and Natural sciences cycle (Biology, Anatomy, Biochemistry, Anatomy, Normal physiology, Microbiology, Immunology, Pathological physiology, Pathological anatomy, Hygiene and ecology, Introduction to the internal diseases, General surgery and Topographical Anatomy, Radiology, Medical rehabilitation, Infectious diseases, Perinatology and Neonatology, Genetics, Intensive care, Phthisiatry, Clinical pharmacology).

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

2. Goal and tasks of the mastering of the discipline

The goal is the mastering the discipline “Obstetrics and Gynecology”: get knowledge about the processes of physiological pregnancy and childbirth; possible complications of gestational process and labor; learn how to put a preliminary diagnosis, provide emergency care in obstetrics. Get basic knowledge of female reproductive health physiology in different age periods and main gynecological diseases in order to be able provide diagnosis and primary emergency care for gynecological patient

The tasks are:

- to learn the obstetric and gynecological care organization principles;
- to study general principles of obstetric and gynecological examination;
- to get and to analyze the data of patient medical history and specific functions of the female organism;
- to master clinical examination principles of pregnant women with physiological/pathological pregnancy, somatic co-morbidity;
- to train in history-taking, examination of pregnant and gynecological patients on the basis of ethics and deontology, depending on the diagnosed pathology and special features of patients;
- to provide the communication skills in the students;
- to study the physiology and pathology of menstrual function;
- to study the physiology of pregnancy and childbirth, to get knowledge of pregnancy symptoms, characteristics of the fetus as an object of labor;
- to organize proper epidemiological environment;
- to get knowledge of the most dangerous pregnancy complications and childbirth, their risk factors, early symptoms, effects on the fetal condition, prevention methods; management, indications and methods of delivery;
- to master the principles and methods of primary emergency care in severe obstetric and gynecological cases;
- to study methods of contraception and family planning;
- to master the principles of treatment and rehabilitation of gynecological patient;
- to train the students in medical documentation filling-in (case history (stationary or outpatient), disability certificate, statistical chart, etc.);
- to provide regular medical check-up of children of different ages in order to prevent severe diseases and their complications;
- to support healthy lifestyle in the family;
- to assess the efficiency of medical service.

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
General professional competencies (GPC) -№ 4,5	
GPC4 - Able to use medical devices provided for by the procedure for the provision of medical care, as well as conduct examinations of a patient in order to establish a diagnosis	<p>IC-4.1 Proficient in modern methods of using drugs, medical devices and medical nutrition for diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>IC-4.2. Knows how to justify the choice of laboratory and instrumental methods of examining a patient.</p> <p>IC-4.3. Possesses the skills of evaluating the results of laboratory and instrumental methods of examining a patient in order to establish a diagnosis.</p>
GPC5 - Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	<p>IC-5.1. Knows anatomy, histology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems.</p> <p>IC-5.2. Knows how to determine and evaluate morphofunctional, physiological states and pathological processes in the human body</p> <p>IC-5.3. He is proficient in the methods of conducting clinical, laboratory and functional diagnostics for solving professional problems.</p> <p>IC-5.4. Knows how to analyze the results of clinical, laboratory and functional diagnostics to assess morphofunctional, physiological conditions and pathological processes in the human body.</p>
Professional competencies *(PC) - № 3	
Ability and willingness to manage and treat patients with various nosological forms	<p>IC-3.1. Is able to draw up a plan for the treatment of the disease and the patient's condition, taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>IC-3.2. Prescribes drugs, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>IC-3.3. Prescribes non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>IC-3.4. Owns the algorithm for providing palliative care when interacting with specialist doctors and other medical professionals.</p>

	<p>IC-3.5. Knows how to prescribe personalized treatment for a patient, including pregnant women, elderly and senile patients; to lead a physiological pregnancy, to take childbirth.</p> <p>IC-3.6. Applies medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, care, taking into account the standards of medical care</p>
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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 _14_ credits.

Type of the academic work	Total hours	Term			
		7	8	9	A (10)
Students' contact work with the teacher (total)	236,3	68	60	60	48,3
Including:					
Lectures (L)	78	20	20	20	18
Seminars (Sem.)					
Practical classes (PC)					
Clinical practicals (CP)	156	48	40	40	28
Laboratory-based practicals (LBP)					
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)	234	40	48	74	72
Examination control (EC)	33,7				33,7
Total discipline workload	504/14	108	108	134	154

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
Obstetrics Section 1. Physiological Obstetrics (term 7)		
1	The structure and organization of the maternity hospital. The structure and organization of outpatient obstetric care setting. Sanitary-epidemiological system in Maternity Hospital	The structure and organization of the maternity hospital. The structure and organization of the welfare clinic. Sanitary-Epidemiological system in Maternity Hospital. The structure of the maternity hospital. The organization of in-patient transfer. The structure of the welfare clinic, antenatal screening aim, prophylactic measures, family planning, social assistance for pregnant women, Obstetric care indices

2	Female reproductive system. Development stages and physiology. Fertilization and pregnancy development. Fetal physiology. Placental functions. Physiologic alterations during pregnancy	Stages of the female reproductive system development, malformations of the external and internal genitalia, regulation in the reproductive system. Histology of the ovum and sperm. Fertilization. Implantation. Placentation. Embryonic and fetal development periods. Physiological alterations during pregnancy.
3	Methods of obstetric examination. Diagnosis of early pregnancy. Methods to evaluate fetal well-being	Specific features of history-taking in obstetrics. Obstetric examination. Pelvimetry. Soloviev's Index. Leopold manoeuvres. Auscultation of fetal heartbeats. Vaginal examination of pregnant patient. Diagnosis of pregnancy (presumably, probable and valid symptoms, laboratory tests). Determination of gestational age and expected date of delivery. The concept of obstetric and perinatal risk groups. The concept of obstetric screening. Booking visit in antenatal screening program. Obstetric records. Methods to evaluate fetal well-being. Biochemical screening, ultrasound obstetric examination, CTG, Doppler. Additional methods - amnioscopy, amniocentesis, chorionic villus sampling, cordocentesis, biopsy of the fetal tissues.
4	Fetus as the object of delivery. Female pelvis from obstetric point of view. Labor mechanism in occipital presentation.	Fetal head anatomy and sizes. Female pelvis anatomy, pelvic planes, sizes, axis. Pelvic floor muscles, blood supply and innervation of the pelvic muscles. Definition of labor mechanism. Labor mechanism moments in occiput presentation
5	Preparatory phase of the labor onset. Physiology and management of labor	The reasons for the labor onset. Clinical features of the preliminary phase. Bishop's score. Labor stages (dilatation, the expulsion of the fetus, placental). Labor management specificity in I, II and III stage of labor. The position of the fetal head with respect to the pelvic planes. Coping with pain during labor. Perineum safeguard technique. Primary care for the newborn. Apgar score. Signs of placental separation. Methods to remove the placenta. Examination of the placenta.
6.	Puerperium.	The early puerperium management. Physiology of the puerperium. Mammary glands changes in puerperium. Lactation. Late puerperium management. Postpartum Contraception
Section 2: Pathology of pregnancy, childbirth and the puerperium (term 8)		
7.	Pregnancy complications at early stages. Preeclampsia. Eclampsia.	Nausea and vomiting in pregnancy. Salivation. Rare forms - dermatosis, tetany, osteomyelitis, acute yellow atrophy of the liver, asthma of pregnant. Hypertension during pregnancy - classification, etiology and pathogenesis, Preeclampsia.

		Eclampsia. Indication for pregnancy termination. Management of labor and the postpartum period. Postpartum therapy of severe preeclampsia.
8.	Pregnancy with somatic co-morbidity	Antenatal management of pregnant women with cardiovascular diseases (heart disease, hypertension, rheumatism), kidney disease (pyelonephritis, glomerulonephritis, kidney insufficiency), chronic anemia, diabetes mellitus, liver disease. Medical complications of pregnancy.
9	Miscarriage. Preterm delivery. Post-term delivery.	Spontaneous abortion - definition, causes, clinical features, differential diagnosis, therapy. Preterm birth (definition, obstetric care, prevention). Primary care and resuscitation of a premature baby. Post term delivery - definition, causes. Signs of postterm child. Labor induction indications, management specificity.
10.	Abnormal labor contractions. Placental insufficiency.	Placental function. Etiology and pathogenesis of the placental insufficiency; diagnosis, principles of therapy. Primary and secondary uterine hypotonic contractions. Precipitate delivery. Uterine dystocia. Main principles of management.
11.	Contracted pelvis. Multiple pregnancy. Fetal macrosomia	Contracted pelvis-definition, classification. Labor mechanism specificity in various forms of pelvic contraction. Clinical features of labor in case of contracted pelvis. Feto-pelvic disproportion. Fetal macrosomia. Delivery planning. Etiology of multiple pregnancy. Diagnosis, possible complications, management of multiple pregnancy.
12.	Fetal malpositions. Breech presentation. Fetal cephalic malpresentation	Classification, risk factors and diagnosis of fetal malposition. Breech presentation - definition, classification. Labor mechanism in breech presentation. Management of pregnancy and childbirth. Manoeuvres by Tsovyanov, Mauriceau–Smellie–Veit to assist natural birth. Oblique and transverse position of the fetus. Management of pregnancy and delivery. Fetal cephalic malpresentations, diagnosis, risk factors, management.
13.	Placenta previa. Placental abruption. Placental anomalies. Atonic uterine bleeding in the early and late postpartum period.	The classification of placenta previa. The etiology and pathogenesis, pregnancy and delivery management. Placental abruption etiology and pathogenesis, clinical features, diagnosis, management of pregnancy and childbirth. Placenta

		accreta - classification, diagnosis, obstetrical tactic. The concept of the uterine atony. Risk factors, symptoms and management. Late postpartum hemorrhage. Emergency care. Prevention of postpartum hemorrhage
14.	Puerperium infections.	Puerperium infections classification, etiology, pathogenesis. Puerperium wound infection, endometritis, thrombophlebitis. Obstetric peritonitis. Sepsis. Postpartum lactation mastitis.
Section 3: Obstetric surgery (term 8)		
15.	Obstetric trauma. Operative vaginal delivery techniques. Caesarean section.	Birth canal lacerations. Perineal tears. Vaginal and cervical ruptures. Uterine rupture. Classification, etiology, pathogenesis, treatment measures. Threatening, the beginning and the accomplished uterine rupture. Obstetric forceps, vacuum extraction of the fetus. Cesarean section indications and technique. Management of the postoperative period. Complications and long-term consequences. Prevention of postpartum infections.
Gynecology.		
Section 1: General gynecology (term 9)		
1.	Diagnostics in Gynecology.	Features of the gynecological examination: general, pelvic examination, hormonal, instrumental, x-ray, ultrasound, immunological, etc. Case history of gynecologic patient.
2.	Menstrual Cycle. Menstrual Function Disorders.	Physiology of menstrual cycle in women. Normal characteristics of menstrual cycle. Terminology of disorders of menstrual cycle. Main disorders of menstrual cycle. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
3.	Abnormal Uterine Bleeding. Dysfunctional Uterine Bleeding (DUB, or AUB-O). Dysmenorrhea.	Etiology, pathogenesis, classification, symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
4.	Vaginal Infections. Pelvic Inflammatory Disease (PID).	Etiology, pathogenesis, classification. Symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
5.	Sexually transmitted infections (STD). Genital Tuberculosis. Viral	Most common sexually transmitted infections. Genital tuberculosis. Methods of diagnosis. Treatment. Prevention. Re-habilitation of

	Infections in Gynecology. Herpes Simplex. Papillomavirus Infection.	reproductive function.
6.	Uterine Fibroid.	Etiology, pathogenesis, classification. Symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
7.	Endometriosis. Adenomyosis.	Etiology, pathogenesis, classification. Symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
8.	Neuro-Endocrine Disorders in Gynecology: Polycystic Ovary Syndrome (PCOS), Premenstrual Syndrome (PMS), Premature Ovarian Insufficiency (POI), Hyperprolactinemia.	Etiology, pathogenesis, classification. Symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
9.	Family Planning. Methods of Contraception.	Family Planning. Methods of Contraception. Definitions. Characteristics. Advantages and disadvantages. Non-contraceptive benefits.
10.	Hormonal Contraception.	History. Classifications. Principles of contraceptive action. Therapeutic effects of hormonal contraceptives. Pearl index. Investigations. Contraindications. Non-contraceptive benefits. Features of hormonal contraception in different age-groups.
Section 2: General gynecology (term A (10))		
11.	Ovarian Cysts and Tumors. Ovarian Cancer.	Etiology, pathogenesis, classification. Symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
12.	Cervical Pathology. Cervical Cancer.	Etiology, pathogenesis, classification. Symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
13.	Endometrial Hyperplasia and Cancer.	Etiology, pathogenesis, classification. Symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
14.	Amenorrhea.	Etiology, pathogenesis, classification. Symptoms. Methods of diagnosis. Treatment. Prevention. Rehabilitation of reproductive function.
15.	Organization of Gynecological Care for Children and Adolescents. Gynecological Pathology in These Age Groups.	Organization of gynecological care for children and adolescents in Russian Federation. Main gynecological pathology in these age groups: vulvovaginal infections, juvenile abnormal uterine bleeding (AUB), dysmenorrhea, disorders of puberty.
16.	Genital System Development. Genital Malformations.	Genital system development in different ages of gestation. Genital malformations: classification,

		main types, diagnostics, management. Rehabilitation of reproductive function.
17.	Menopausal and Senile Period in Women (including Pelvic Floor Disorders in Women).	General characteristics of menopausal and senile period in women. Symptoms of perimenopause and senile period. Etiopathogenesis of climacteric disorders. Investigations. Benefits and disadvantages of menopausal replacement therapy (MRT), classifications of medications, and regimens of administration, contraindications and complications. Non-hormonal alternatives to MRT. Pelvic Floor Disorders in Women: Genital Prolapse and Urinary Incontinence. Etiology, pathogenesis, classifications. Symptoms. Methods of diagnostics. Conservative and non-surgical treatment. Prevention.
18.	Infertility. Assisted Reproductive Techniques.	Definitions. Female and male infertility. Diagnostics, management and prevention.
Section 3: Emergency gynecology (term A (10))		
19.	Gynecological Emergencies ("Acute abdomen" in Gynecology).	Gynecological Emergencies: ectopic pregnancy, ovarian apoplexy, ovarian cyst (tumor) rupture and torsion, acute pelvic inflammatory disease (PID), uterine fibroid's necrosis. Etiology, pathogenesis, classification. Symptoms. Methods of diagnostics. Treatment. Prevention. Rehabilitation of reproductive function.
20.	Gynecological Surgery. Preparation, Post-operative care.	Gynecological surgery: most common surgical interventions, indications and contraindications. Preparation, post-operative care. Prevention and management of complications.
21.	Case-History Record. Final Class. Simulation Centre.	Gynecological outpatient clinics: methods of investigations and treatment, training in manipulations. Summing up for the course of Gynecology. Final test. Case-history records discussion.

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1.	The subject of an obstetrics. Obstetric care organisation. Main indices	2							2
2.	The structure and organization of the maternity hospital. Prophylaxy of nosocomial infections							2	2
3	Physiology of a menstrual function	2						2	4

4	Fertilisation. Early stages of embryo development	2					2	4
5	Placental physiology	2					2	4
6	Physiology alterations during pregnancy	2					2	4
7.	Fetus as the object of delivery. Female pelvis from an obstetric point of view.			4			4	8
8.	Pregnancy diagnosis. Obstetric examination. Additional methods of obstetrical examination.			4			2	6
9.	Outpatient obstetric setting. Antenatal screening.			4			4	8
10.	Labor mechanism in occipital presentation.			4			4	8
11	Labor physiology	2					2	4
12	Labor pain relief	2					2	4
13	Labor management in 1st and 2nd stages.			4			2	6
14	Labor management specificity in 3rd stage of labor. Early postpartum period.			4			2	6
15	Puerperium. Anatomy and physiology of the newborn. Primary care for the newborn, principles of resuscitation. Breastfeeding	2		4			2	8
16	Antenatal screening. Methods to evaluate fetal well-being.	2		4			2	8
17	Abnormal uterine contractions	2		4			2	8
18	Contracted pelvis. Feto-pelvic disproportion.	2		4			2	8
20	Abnormal cephalic presentation. Fetal malposition.			4			2	6
21	Pregnancy and delivery in breech presentation. Fetal small parts presentation and prolaps.			4			2	6
22	Miscarriage.	2		4			2	8
23	Preterm birth. Prematurity. Post-term delivery.	2		4			2	8
24	Multiple pregnancy.	2		4			2	8
25	Maternal labor trauma. Delivery techniques.	2		4			4	10
26	Antenatal bleeding: placenta praevia, placenta accreta. Haemorrhagic shock	2		4			2	8
27	Postpartum bleeding. DIC-syndrome.	2		4			2	8
28	Puerperium infections.	2		4			2	8
29	Complications of early pregnancy. Hypertension during pregnancy Diagnosis. Management.	2		4			2	8

30	Rhesus conflict during pregnancy						2	2
31	Cardiac pathology in pregnancy (heart disease, arrhythmia, anemia and kidney pathology)				4		4	8
32	Endocrine pathology Gastro-intestinal pathology during pregnancy. Acute surgical diseases in pregnant women.				4		4	8
33	Fetal pathology (malformations, IUGR, fetal hypoxia, neonatal asphyxia).	2					4	6
34	Perinatal infections						4	4
35	Case history record						8	8
	Subtotal for Obstetrics	40			88		88	216

Gynecology Module

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1.	Diagnostics in Gynecology.				4			4	8
2.	Menstrual Cycle. Menstrual Function Disorders.	2			4			6	12
3.	Abnormal Uterine Bleeding. Dysfunctional Uterine Bleeding (DUB, or AUB-O). Dysmenorrhea.	2			4			8	14
4.	Vaginal Infections. Pelvic Inflammatory Disease (PID).	2			4			8	14
5.	Sexually transmitted infections (STD). Genital Tuberculosis. Viral Infections in Gynecology. Herpes Simplex. Papillomavirus Infection.	4			4			12	20
6.	Uterine Fibroid.	2			4			8	14
7.	Endometriosis. Adenomyosis.	2			4			6	12
8.	Neuro-Endocrine Disorders in Gynecology: Polycystic Ovary Syndrome (PCOS), Premenstrual Syndrome (PMS), Premature Ovarian Insufficiency (POI), Hyperprolactinemia.	4			4			8	16
9.	Family Planning. Methods of Contraception.	2			4			6	12
10.	Hormonal Contraception.				4			8	12
11.	Ovarian Cysts and Tumors. Ovarian Cancer.	2			4			6	12
12.	Cervical Pathology. Cervical Cancer.	2			4			8	14
13.	Endometrial Hyperplasia and Cancer.	2			4			8	14
14.	Amenorrhea.	2			4			4	10

15.	Organization of Gynecological Care for Children and Adolescents. Gynecological Pathology in These Age Groups.	2						6	8
16.	Genital system development. Genital malformations.	2						8	10
17.	Menopausal and Senile Period in Women (including Pelvic Floor Disorders in Women).	2			4			6	12
18.	Infertility. Assisted Reproductive Techniques.	2			4			8	14
19.	Gynecological Emergencies ("Acute abdomen" in Gynecology).	2			4			6	12
20.	Gynecological Surgery. Preparation, Post-operative care.							6	6
21.	Case-History Record. Final Class. Simulation Centre.							6	6
	Subtotal for Gynecology	38			68			146	252

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	Overview of Obstetrics	Self-work with lecture in Moodle course	1.MCQ 2.Oral survey
2	Complications of early pregnancy	Self-work with lecture in Moodle course	1.MCQ 2.Oral survey
3	Antenatal screening. Methods to evaluate fetal well-being.	Self-work with lecture in Moodle course Viewing educational videos.	1.MCQ 2.Oral survey
4	Labor mechanism in occipital presentation.	Working off on models and phantoms. Viewing educational videos.	1.MCQ 2.Oral survey
5	Maternal labor trauma	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey
6	Anatomy and physiology of the newborn	Preparation of a report and presentation	1.Case study

7	Miscarriage.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
8	Multiple pregnancy.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
9	Post-term delivery.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
10	Haemorrhagic shock. DIC-syndrome	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1 Case study
11	Cardiac pathology in pregnancy Anemia during pregnancy Epilepsy during pregnancy	Preparation of a report and presentation, an independent development of control questions for discussion in the group. 1 Case study	1.MCQ 2. Case study
12	Diagnostics in Gynecology.	Working off on models and phantoms.. Viewing educational videos.	1.MCQ 2.Oral survey
13	Menstrual Cycle. Menstrual Function Disorders.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
14	Abnormal Uterine Bleeding. Dys-functional Uterine Bleeding (DUB, or AUB-O). Dysmenorrhea.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
15	Vaginal Infections. Pelvic Inflammatory Disease (PID).	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
16	Sexually transmitted	Preparation of a report and	1.MCQ

	infections (STD). Genital Tuberculosis. Viral Infections in Gynecology. Herpes Simplex. Papillomavirus Infection.	presentation, an independent development of control questions for discussion in the group.	2.Oral survey 3. Case study
17	Uterine Fibroid.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
18	Endometriosis. Adenomyosis.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
19	Neuro-Endocrine Disorders in Gynecology: Polycystic Ovary Syndrome (PCOS), Premenstrual Syndrome (PMS), Premature Ovarian Insufficiency (POI), Hyperprolactinemia.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
20	Family Planning. Methods of Contraception.	Self-work with manual. Viewing educational videos.	1.MCQ 2.Oral survey 3.Case study
21	Hormonal Contraception.	Self-work with manual.	1.MCQ 2.Oral survey
22	Ovarian Cysts and Tumors. Ovarian Cancer.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
23	Cervical Pathology. Cervical Cancer.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
24	Endometrial Hyperplasia and Cancer.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study

25	Amenorrhea.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
26	Organization of Gynecological Care for Children and Adolescents. Gynecological Pathology in These Age Groups.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
27	Genital system development. Genital malformations.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
28	Menopausal and Senile Period in Women (including Pelvic Floor Disorders in Women).	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
29	Infertility. Assisted Reproductive Techniques.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
30	Gynecological Emergencies ("Acute abdomen" in Gynecology).	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
31	Gynecological Surgery. Preparation, Post-operative care.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study
32	Case-History Record. Final Class. Simulation Centre.	Preparation of a report and presentation, an independent development of control questions for discussion in the group.	1.MCQ 2.Oral survey 3. Case study

7. Forms of control

7.1. Current forms of control

- oral (an interview, a credit)
- technical means (training tests, certification tests)
- written (tests, essays, abstracts, practice report).

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

Intermediate control - credit

Final control - examination

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. CDC Dutta's textbook of Obstetrics including Perinatology and Contraception/ Dutta D.C. - 7th ed. - 2013. - 692 p.
2. Obstetrics by Ten Teachers/ ed. Philip N. Baker. -18 th. ed.. -London: Edward Arnold (Publishers) Ltd, 2006. -340 p.
3. Gynaecology by Ten Teachers/ ed. Ash Monga. -18 th. ed.. -London: Edward Arnold (Publishers) Ltd, 2006. -245 p.
4. Williams Obstetrics 25th edition - <https://medstudentscorner.com/download-williams-obstetrics-pdf-24th-edition-review/>
5. Williams Gynecology 4th Edition - <https://medstudentscorner.com/williams-gynecology-3rd-edition-pdf-download-freepreview/>

8.2. Supplementary literature

1. Obstetrics Triage And Emergency Care Protocols 2nd Edition - <https://medstudentscorner.com/category/obstetrics/>
2. Multiple Choice Questions in Gynaecology and Obstetrics 3rd Edition - <https://medstudentscorner.com/multiple-choice-questions-in-gynaecology-and-obstetrics-3rd-edition-pdf-free-download>

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

№	Resources	URL address	Resource Annotation
	WHO official site for maternal and perinatal health	http://www.who.int/reproductivehealth/publications/maternal_perinatal_health/en/	
	Cochrane Summaries	http://www.cochrane.org/evidence	
	The Royal College of Obstetricians and Gynaecologists (RCOG)	https://www.rcog.org.uk/guidelines	
	Society of Obstetricians and Gynaecologists of Canada (SOGC)	http://sogc.org/clinical-practice-guidelines/	
	American Congress of Obstetricians and Gynecologists (ACOG)	http://www.acog.org/	

	The International Federation of Gynecology and Obstetrics (FIGO)	http://www.figo.org/publications-resources	
	Centers for disease control and prevention (CDC)	http://www.cdc.gov/	
	База данных «Scopus»	http://www.scopus.com/	
	Электронный архив журналов издательства SAGE PUBLICATIONS	www.sagepub.com	
	Электронный архив журналов издательства IOP Publishing	http://iopscience.iop.org/journals?type=archive	
	Электронный архив журналов издательства OXFORD UNIVERSITY PRESS	www.oxfordjournals.org/	
	Электронный архив журнала SCIENCE издательства AAAS	www.sciencemag.org	
	Электронный архив журналов издательства ROYAL SOCIETY OF CHEMISTRY	www.rsc.org/	

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	4 course Obstetrics and gynecology Obstetrics, Istomina N.G., https://edu.nsmu.ru/course/view.php?id=118	+EC
2	Moodle	4 course English medium Obstetrics and gynecology Pathological Obstetrics, Istomina N.G., https://edu.nsmu.ru/course/view.php?id=453	+EC
3	Moodle	4 course Obstetrics and gynecology Clinical practice, Doctor assistant, Istomina N.G., https://edu.nsmu.ru/course/view.php?id=1693	+EC
4	Moodle	5 course General medicine Obstetrics and gynecology Gynecology, Usynin M.V., https://edu.nsmu.ru/course/view.php?id=623	+EC
5	Moodle	5 course Elective classes Gynaecology, Usynin M.V., https://edu.nsmu.ru/course/view.php?id=1545	+EC
6	Moodle	6 course Elective classes Obstetrics and Gynaecology, Istomina N.G. https://edu.nsmu.ru/course/view.php?id=1546	+EC

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	Classroom for lecture-type classes No. 2403 of Marine Medicine, administrative building, 4th floor	163000, Arkhangelsk, Troitsky, 51	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
2	Classroom for seminar-type classes, group and individual consultations, monitoring and intermediate certification No. 20, 1st floor obstetric and gynecological building Agreement No. 550 of 07/05/2017 on the organization of practical training for students between the NSMU (Arkhangelsk) of the Ministry of Health of Russia and the Arkhangelsk Regional Clinical Hospital. The term of the Agreement is 5 years. Equipment in accordance with Appendix No. 3 to the Agreement.	163045, Arkhangelsk region, Arkhangelsk, Lomonosov Ave., 292	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, PC, projector, screen c) a list of teaching aids: schemas, tables, handouts for practical exercises on all topics of the discipline, dummies, tabular and reference materials, Gamma G7 tonometer, stethoscope, phonendoscope, thermometers, electronic scales, stadiometer, gynecological dummy, bank of cases of various neonatal diseases, systematized by nosological forms
3	Classroom for seminar-type classes, group and individual consultations, monitoring and intermediate certification No. 26, 1st floor obstetric and gynecological building Agreement No. 550 of 07/05/2017 on the organization of practical training for students between the NSMU (Arkhangelsk) of the Ministry of Health of Russia and the Arkhangelsk Regional Clinical Hospital. The term of the Agreement is 5 years. Equipment in accordance with Appendix No. 3 to the Agreement.	163045, Arkhangelsk region, Arkhangelsk, Lomonosov Ave., 292	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, PC, projector, screen c) a list of teaching aids: schemas, tables, handouts for practical exercises on all topics of the discipline, dummies, tabular and reference materials, Gamma G7 tonometer, stethoscope, phonendoscope, thermometers, electronic scales, stadiometer, gynecological dummy, bank of cases of various neonatal diseases, systematized by nosological forms
4	Classroom for seminar-type classes, group and individual consultations, monitoring and intermediate certification No. 27, 1st floor obstetric and gynecological building Agreement No. 550 of 07/05/2017 on the organization of practical training for students between the NSMU (Arkhangelsk) of	163045, Arkhangelsk region, Arkhangelsk, Lomonosov Ave., 292	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, PC, projector, screen c) a list of teaching aids:

	the Ministry of Health of Russia and the Arkhangelsk Regional Clinical Hospital. The term of the Agreement is 5 years. Equipment in accordance with Appendix No. 3 to the Agreement.		schemas, tables, handouts for practical exercises on all topics of the discipline, dummies, tabular and reference materials, Gamma G7 tonometer, stethoscope, phonendoscope, thermometers, electronic scales, stadiometer, gynecological dummy, bank of cases of various neonatal diseases, systematized by nosological forms
5	Simulation class № 426, educational building, 4th floor: maternity room for skills training.	163001, Arkhangelsk, Troitsky Ave., 180	list of teaching aids: Visual aids, handouts for practical exercises on all topics of the discipline. Manipulation table MSK-549-02-MSK, delivery bed with mattress, screen, wardrobe, open resuscitation system for caring for newborns Ampla 2085, model of a woman's pelvis to demonstrate fetal movement on a support, extended version of the gynecological phantom of labor, robot simulator for practicing obstetric skills for a woman "Lyusina", fetal monitor Overton 6900, system "VirtuEL" for practicing obstetric skills and providing emergency care in obstetric practice, model of demonstration of a woman's birth canal on a support, a hybrid simulator for teaching bimanual gynecological research, a gynecological phantom, a VirtBORN dummy for a newborn for practicing extended treatment and resuscitation actions in neonatology, complete set with an ECG
6	Simulation class № 426, educational building, 4th floor: maternity room for skills training.	163001, Arkhangelsk, Troitsky Ave., 180	a) list of main equipment: A set of educational furniture (tables, chairs, screen, blackboard) teacher's workplace, working places for students for 12 places. b) sets of demonstration equipment laptop, projector, TV, whiteboard c) a list of teaching aids: Visual aids, handouts for practical exercises on all topics of the discipline

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 **Pediatrics**

Field of training **31.05.01 General Medicine**

Year (s) of study / term (s) **4,5/8,9**

Form of the interim assessment **Exam**

Department **of Neonatology and Perinatology**

Discipline workload **360** (academic hours) / **10** (credits)

Approved at the department meeting

Minutes No.

June 15th 2021

Head of the department:

Assoc. Prof. Anna A. Usynina

Author and compiler:

Anna A Usynina, MD, MPH, PhD, Doc. of med. science, Department of Neonatology
and Perinatology, 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: Biology, Anatomy, Normal physiology, Microbiology, Immunology, Pathological physiology, Pathological anatomy, General surgery, Radiology, Infectious diseases, Genetics, Clinical pharmacology.

The discipline is related to subsequent subjects of the curriculum: Intensive care.

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

2. Goal and tasks of the mastering of the discipline

Discipline is aimed to give knowledge in children normal growth and development and to introduce to diagnostic algorithms, treatment and prevention of the most common diseases in childhood.

The tasks are:

- to provide the communication skills in the students; to teach them to communicate with healthy and sick child, with children's parents; to follow the principles of ethics and deontology;
- to get and to analyze the data of patient medical history and development of the child;
- to provide a physical examination of the child (palpation, percussion, auscultation) and to interpret the obtained data, taking into account anatomical and physiological features;
- to analyze the causes, diagnosis, and interpretation of the most common diseases;
- to organize therapeutic and preventive activity for the main groups of diseases, to provide emergency care for life threatening conditions in children;
- to provide regular medical check-up of children of different ages in order to prevent severe diseases and their complications;
- to support healthy lifestyle in the family;
- to organize and to promote proper healthy nutrition of children by different ages;
- to organize proper epidemiological environment.

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-4. Способен применять медицинские изделия, предусмотренные порядком оказания медицинской помощи, а также проводить обследования пациента с целью установления диагноза	ИД-4.1. Владеет современными методами применения лекарственных препаратов, медицинских изделий и лечебного питания при заболеваниях и состояниях у пациента в соответствии с действующими порядками оказания медицинской помощи, клиническими рекомендациями (протоколами лечения) по вопросам оказания медицинской помощи с учетом стандартов медицинской помощи. ИД-4.2. Умеет обосновать выбор лабораторных и инструментальных методов обследования пациента. ИД-4.3. Владеет навыками оценки результатов лабораторных и инструментальных методов обследования пациента с целью установления диагноза.

<p>ОПК-6. Способен организовывать уход за больными, оказывать первичную медико-санитарную помощь, обеспечивать организацию работы и принятие профессиональных решений при неотложных состояниях на догоспитальном этапе, в условиях чрезвычайных ситуаций, эпидемий и в очагах массового поражения</p>	<p>ИД-6.1. Владеет навыками ухода за больными с учетом их возраста, характера и тяжести заболевания ИД-6.2. Владеет основными врачебными диагностическими и лечебными мероприятиями по оказанию первой врачебной помощи при неотложных состояниях на догоспитальном этапе в соответствии с порядками оказания медицинской помощи. ИД-6.3. Умеет оказывать медицинскую помощь в экстренной форме пациентам при состояниях, представляющих угрозу жизни пациентов, в том числе клинической смерти. ИД-6.4. Владеет алгоритмом оказания первой врачебной помощи в условиях чрезвычайных ситуаций, эпидемий и в очагах массового поражения. ИД-6.5. Умеет организовывать работу медицинского персонала при неотложных состояниях, в условиях чрезвычайных ситуаций, эпидемий и в очагах массового поражения. ИД-6.6. Применяет лекарственные препараты и изделия медицинского назначения при оказании медицинской помощи при неотложных состояниях на догоспитальном этапе.</p>
<p>ОПК-7. Способен назначать лечение и осуществлять контроль его эффективности и безопасности</p>	<p>ИД-7.1. Умеет разрабатывать план лечения заболевания и состояния пациента в соответствии с порядками оказания медицинской помощи, клиническими рекомендациями, с учетом стандартов медицинской помощи. ИД-7.2. Умеет предотвращать или устранять осложнения, побочные действия, нежелательные реакции, в том числе непредвиденные, возникшие в результате диагностических или лечебных манипуляций, применения лекарственных препаратов и(или) медицинских изделий, немедикаментозного лечения. ИД-7.3. Владеет навыками по оценке эффективности и безопасности применения лекарственных препаратов, медицинских изделий и лечебного питания.</p>
<p>ПК-9.* Способность и готовность к ведению медицинской документации и организации деятельности находящегося в распоряжении среднего медицинского персонала</p>	<p>ИД-9.1. Умеет анализировать данные официальной статистической отчетности, включая формы федерального и отраслевого статистического наблюдения, составлять план работы и отчет о своей работе ИД-9.2. Работает с персональными данными пациентов и сведениями, составляющими врачебную тайну ИД-9.3. Проводит анализ медико-статистических показателей заболеваемости, инвалидности и смертности для оценки здоровья населения ИД-9.4. Заполняет медицинскую документацию, в том числе в электронном виде, контролирует качество ее ведения ИД-9.5. Контролирует выполнение должностных обязанностей медицинской сестрой участковой и иными</p>

	находящимися в распоряжении медицинскими работниками ИД-9.6. Использует в своей работе информационные системы в сфере здравоохранения и информационно-телекоммуникационную сеть «Интернет»
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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 _____ credits.

Type of the academic work	Total hours	Term	
		8	9
Students' contact work with the teacher (total)	164,3		
Including:			
Lectures (L)	54	28	26
Seminars (Sem.)			
Practical classes (PC)			
Clinical practicals (CP)	108	54	54
Laboratory-based practicals (LBP)			
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)	162	98	64
Examination control (EC)	33,7		33,7
Total discipline workload	360/10	180	180

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	General questions of Pediatrics	<p>Periods of childhood. Studying of periods of childhood. Anamnesis. Methods of examination of the child at different ages.</p> <p>Physical and neuropsychological development. Regularities of physical and neuropsychological development of the child. Methodology and evaluation criteria.</p> <p>Dietetics of healthy child. Basic principles of rational nutrition for infants and young children. Methods of calculation of nutrition.</p>

		Anatomical and physiological features of organs and systems. APF (anatomical and physiological features) of nervous system and sensory organs in children, skin and subcutaneous fat, lymphatic system in children, bone and muscle systems in children, respiratory system, circulatory system in children, urinary tract in children, the endocrine system.
2	Disorders in infancy	
		<p>Chronic digestion disorders. Etiology and pathogenesis of chronic digestion disorders. Hypotrophy, paratrophy, gipostatura. Diagnosis, principles of treatment and observation. Pylorospasm and pylorostenosis.</p> <p>Anomalies of the constitution. Types of anomalies in the constitution. Diagnosis, clinical manifestations, treatment and supervision of children.</p> <p>Rickets. The etiology and pathogenesis. Diagnosis, principles of prevention and treatment of rickets, regular medical check-up. Differential diagnosis of rickets with similar to rickets diseases. Hypervitaminosis D. Spasmophilia, emergency care for convulsive syndrome.</p> <p>Anemia. Anemia in children. Deficiency anemia - iron, protein deficiency, B12 and folic acid-deficiency anemia. Causes, clinical features, diagnosis, principles of treatment and prevention.</p> <p>Diseases of the respiratory system. Bronchitis and pneumonia in children.</p> <p>Diseases of the cardiovascular system. Congenital heart disease. Classification. Algorithm of the diagnosis congenital heart disease.</p> <p>Healthy newborn. Breastfeeding. Physiological adaptation. TORCH infections. SGA babies. Prematurity, preterm newborns. Rh incompatibility. Acute asphyxia. Resuscitation in delivery unit. Birth trauma.</p>
3	Disorders in childhood	

		<p>Diseases of the respiratory system. Chronic respiratory disease. Bronchial asthma.</p> <p>Diseases of the cardiovascular system and rheumatic diseases. Inflammatory diseases. Rheumatism. Diffuse connective tissue diseases. Heart failure</p> <p>Diseases of urinary System. Pyelonephritis, cystitis. Enuresis. Nephritis and nephropathy. Tubulointerstitial nephritis. Acute and chronic renal failure.</p> <p>Arthritis. Classifications. Types of disorders.</p> <p>Diseases of gastrointestinal tract. Chronic esophagitis, chronic gastritis, gastroduodenitis, peptic ulcer of the stomach and duodenal ulcer. Pathology of the pancreas, gallbladder and bile ducts. Diagnostics, principles of treatment, rehabilitation and observation.</p> <p>Diseases of the blood system. The etiology, pathogenesis and clinical manifestations of certain forms of hemorrhagic diathesis and hemorrhagic diseases. Variants of leukemia in childhood.</p> <p>Diseases of endocrine system. Diabetes mellitus. Thyroid gland diseases.</p> <p>Immunodeficiency syndrome.</p>
4	Infectious diseases in children, selected issues; Immunization	
		<p>Organization of vaccination.</p> <p>Intestinal diseases, selected issues</p> <p>Acute respiratory diseases, selected issues.</p>

5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1	General questions of Pediatrics	8			18			32	58
2	Disorders in infancy	14			40			35	89
3	Disorders in childhood	28			50			75	153

4	Infectious diseases in children, selected issues; Immunization	4						20	24
	Total	54			108			162	324

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 questions of Pediatrics	Literature review. Multimedia presentations	Oral presentation. Written material checking.
2	Disorders in infancy	Literature review. Multimedia presentations	Oral presentation. Written material checking.
3	Disorders in childhood	Literature review. Multimedia presentations	Oral presentation. Written material checking.
4	Infectious diseases in children, selected issues; Immunization	Literature review. Multimedia presentations	Oral presentation. Written material checking.

7. Forms of control

7.1. Current forms of control

- Oral: recitation on topic sessions, interview, assessment of the report, the defense of the medical history, clinical examination of the patient, analysis of multimedia presentations and slideshows;
- Written: test control on paper, essays, summaries, writing abstracts on the topics of missed practical lessons, solving clinical case studies, verification of educational histories.

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

Stage - exam test (in Moodle)

8. Library and information materials of the course

8.1. Compulsory literature

1. Ghai O.P. Essential Pediatrics [Текст]/ O. P. Ghai ; ed.: O. P. Ghai, V. K. Paul, A. Bagga. -7th. ed.: CBS Publishers & Distributors, 2010. -768 p.: il.

8.2. Supplementary literature

1. Londhe VA. Blueprints. Clinical Cases in Pediatrics: 2nd (second) Edition. Lippincott Williams & Wilkins. 2006.
2. Toy E, Briscoe D. Case Files Pediatrics, Fourth Edition (LANGE Case Files). The McGraw-Hill Companies, Inc. 2012.
3. Ewer A, Barrett T, Diwakar V. Core Clinical Cases in Paediatrics: a problem-solving approach. Издательство Oxford University Press Inc. 2005.

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

№	Resources	URL address	Resource Annotation
1	Database «Scopus»	http://www.scopus.com/	Papers collection
2	Database “Pubmed”	http://www.pubmed.com/	Papers collection
3	Electronic archive of AAP publications	www.aap.com	Papers collection, educational literature
4	Cochrane library	http://www.cochrane.org	Study results, papers collection, educational literature
5	Electronic library NSMU	http://lib.nsmu.ru/lib/	Papers collection, educational literature

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
	Moodle	https://edu.nsmu.ru	Mixed education +e-course

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

Program - MSWindowsServerCAL 2008 DeviceCAL. licence 46850049, unlimit;

Office - MSOffice 2007;

Other - RadminViewer 3. RadminServer 3. Doc # 11001793; TrafficInspector. Licence №1051-08от 10.04.2008, unlimit, Kaspersky Endpoint Security

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	Учебные аудитории для практических занятий, групповых и индивидуальных консультаций, текущего контроля и промежуточной аттестации	163045, Архангельская область, г. Архангельск, пр. Ломоносова, 292, 1 этаж Перинатальный центр	Учебные аудитории для практических занятий, групповых и индивидуальных консультаций, текущего контроля и промежуточной аттестации. Договор № 550 от 05.07.2017 года об организации практической подготовки обучающихся, заключаемого между образовательной и медицинской организацией, осуществляющей деятельность в сфере охраны здоровья Комплект учебной мебели на 14 мест, основное оборудование, наборы демонстрационного оборудования и учебно-наглядных пособий, ноутбук, проектор.
2	Центр аккредитации и симуляционного образования	Проспект Троицкий 180, аудитория 414	Реанимационный стол, фантом новорожденного для первичной реанимации, мешок Амбу,

			электроотсос, ларингоскоп, интубационные трубки, катетер пупочный и желудочный
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APPROVED

Dean of the International Faculty
of General Practitioner



A.K. Sherstennikova

June 16th 2021

SYLLABUS OF THE DISCIPLINE

Discipline **Pediatric surgery**

Field of training **31.05.01 General Medicine**

Year (s) of study / term (s) **IV / 8**

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

Department **Pediatric surgery**

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

Approved at the department meeting

Minutes No. 1

June 15th 2021

Head of the department



I.A. Turabov

Author and compiler:

M.Y. Yanitskaya, Doctor of Medical Sciences.
Professor at the Department of Pediatric Surgery

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 (FSSES) 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:

- cycle of humanitarian and social and economic disciplines (bioethics; psychology, Latin; foreign language);

- cycle of mathematical, natural-science, medicobiological disciplines (physics and mathematics; medical informatics; chemistry; biology; biochemistry, human anatomy, topographical anatomy; histology, embryology, cytology; normal physiology; pathological anatomy, pathophysiology; microbiology, virology; immunology, clinical immunology; pharmacology)

The discipline is related to subsequent subjects of the curriculum:

- cycle of medico-professional and clinical disciplines (operative surgery and topographical anatomy, radiodiagnosis and therapy, the general, faculty and hospital surgery, traumatology and orthopedics, anesthesiology and resuscitation, pediatrics)

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 the learning of discipline is the preparation of students to exercise professional activities in the field of healthcare (in the provision of primary health care to the population in medical organizations: clinics, ambulatory, stationary and polyclinic institutions of the municipal health care system and preventive institutions that provide primary health care Help population).

Tasks:

1. Formation of knowledge clinical manifestations, diagnosis, differential diagnosis, tactics of treatment of surgical pathology in children
2. Formation of skills to examine children with a variety of surgical pathology, diagnose children's malformations, surgical diseases, tumors, critical states.
3. Formation of the skills of providing emergency care for children with surgical pathology, tactics of further treatment and follow-up

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)-№	General cultural competences
GCC-1	ability and willingness to analyze socially important problems and processes, apply methods used in humanities, natural sciences, medi-co-biological and clinical sciences to various kinds of professional and social activities
General professional competencies (GPC) -№	General professional competences
GPC-1	preparation of students for the implementation of professional activities in the field of public health by ensuring the provision of highly qualified medical care in accordance with the established requirements and standards in the field of health care
Professional competencies *(PC)- №	
PC-4. Ability to apply medical products provided for by the procedure for providing medical care, as well as	ICA-1. Owns modern methods of using drugs, medical devices and medicinal nutrition in diseases and states in

to conduct a patient survey in order to establish a diagnosis	<p>a patient in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on medical care, taking into account medical care standards</p> <p>ICA-2. Knows how to substantiate the choice of laboratory and instrumental methods of patient survey</p> <p>ICA-3. Owns the skills of assessing the results of laboratory and instrumental methods of the patient examination in order to establish a diagnosis</p>
PC-7. Ability to prescribe treatment and monitor its effectiveness and safety	<p>ICA-1. Able to develop a plan for treating the disease and patient's condition in accordance with the procedures for medical care, clinical recommendations, taking into account medical care standards</p> <p>ICA-2. Conditions to prevent or eliminate complications, side effects, unwanted reactions, including unforeseen, resulting from diagnostic or therapeutic manipulations, use of drugs and (or) medical devices, non-drug treatment</p> <p>ICA-3. Owns skills to assess the effectiveness and safety of drugs of drugs, medical devices and medical nutrition</p>
PC-2. The ability and willingness to conduct a patient examination to establish a diagnosis	<p>ICA-1. Conducts the collection of complaints, anamnesis of life and patient disease and analyze the information obtained, carry out full physical examination of the patient (inspection, palpation, percussion, auscultation) and interpret its results</p> <p>ICA-2. Owns the skills to determine the patient the main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the current international statistical classification of health problems and problems related to health</p> <p>ICA-3. Conducts the need to substantiate the need and volume of laboratory and instrumental examination of the patient in accordance with the current procedures for medical care, clinical guidelines (treatment protocols) on medical care, taking into account medical care standards and interpret its results</p> <p>ICA-4. Exercises early diagnosis of internal organs and conducts differential diagnosis of internal organs from other diseases</p>
PC-3. The ability and readiness for the maintenance and treatment of patients with different nosological forms	<p>ICA-1. Conduct a plan for the treatment of the disease and condition of the patient, taking into account the diagnosis, the age of the patient, the clinical picture of the disease in accordance with the current procedures for medical care, clinical guidelines (treatment protocols) on medical care providing medical care standards</p> <p>ICA-2. Appoints drugs, medical products and medicinal nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for medical care, clinical guidelines (treatment protocols) on medical care providing medical care standards</p> <p>ICA-3. Assigns non-drug treatment with regard to the diagnosis, age and clinical picture of the disease in accordance with the current procedures for medical care, clinical guidelines (treatment protocols) on medical care, taking into account medical care standards</p> <p>ICA-6. Applies medical products in accordance with the current medical care procedures, clinical guidelines (treatment protocols) on medical care, assistance taking into account medical care standards</p>

PC-5. Ability and willingness to provide medical care in emergency and emergency form, the establishment of a human biological death	ICA-1. Knows how to identify clinical signs of states requiring medical care in emergency form ICA-2. Performs measures to provide medical care in emergency form in accordance with the procedures for providing medical care, clinical guidelines, taking into account medical care standards
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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 2 credits.

Type of the academic work	Total hours	Term
		8
Students' contact work with the teacher (total)	36	36
Including:		
Lectures (L)	12	12
Seminars (Sem.)		
Practical classes (PC)		
Clinical practicals (CP)	24	24
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	Content of the section
1.	<i>Surgical infection in children</i>	<p>1). <i>Acute hematogenous osteomyelitis (AHO) in children.</i> Etiology and pathogenesis. Clinical manifestations AHO in children. Classification. Features of AHO in children of the first months of life. Diagnosis of acute hematogenous osteomyelitis (X-RAY, radioisotope studies; MRI; ultrasound) Surgical treatment of osteomyelitis. Features of treatment in children of various age groups. Criteria for outcome in chronic osteomyelitis. Follow-up of children after AHO.</p> <p>2). <i>Necrotic pneumonia (NP) in children.</i> Etiology, pathogenesis.</p>

		<p>Clinical manifestations NP.</p> <p>Complications of NP: abscessis of the lung, pyothorax, pyopneumothorax, pyopneumomediastinitis (clinical manifestations, diagnostics, tactics of the surgical treatment).</p> <p>Outcomes and follow-up of the children after of the NP.</p>
2.	<i>Emergency Abdominal Surgery</i>	<p>1. <i>Acute appendicitis</i> in children: etiology, pathogenesis, classification, features of a clinical presentations depending on age, duration of symptoms, localization of an appendix, the principles of surgical treatment. Differential diagnostics of acute appendicitis in children: a pathology range (mesoadenitis, coprosthesis, a helminthic invasion, gastrointestinal diseases,olecystitis, diseases of an urinary system, gynecologic diseases, vasculit, pneumonia, intussusception). Complications of an acute appendicitis (the infiltrate, abscess, peritonitis local and spread). Clinical manifestations, diagnostics, treatment tactics</p> <p>2. <i>Acquired intestinal obstruction</i></p> <p>Intussusception in children. Frequency. Classification. Pathogenesis, clinical presentations of intussusception, its feature depending on a disease stage. Additional methods of investigation for confirmation of the diagnosis. Tactics of treatment of intussusception, the indication to conservative (nonoperative) and surgical treatment. Methods of a conservative (non operative) reduction of the intussusception.</p> <p>Technology of surgery at intussusception.</p> <p>Classification of clinical forms of adhesive obstruction, clinical presentations, conservative and surgical treatment.</p>
3.	<i>Emergencies in newborn</i>	<p>1. <i>Esophageal atresia</i>. Etiology, pathogenesis, clinical presentations, diagnostics and surgical treatment of esophageal atresia. VATER, VACTERL, CHARGE associations.</p> <p>2. <i>Newborn intestinal obstruction</i>. Etiology, pathogenesis, clinical</p>

		<p>manifestations, diagnostics and treatment of intestinal obstruction at various levels: proximal (high) and distal (low) forms. Malrotation, volvulus: clinical presentations, diagnostics and surgical treatment.</p> <p><i>3. Anorectal malformations.</i> Etiology, pathogenesis, clinical presentations, diagnostics and surgical treatment of imperforated anus (anal atresia) with fistulas and without fistulas, cloaca. Tactics of the pediatrician and a condition of transportation of newborns with congenital malformations to the specialized center.</p> <p><i>4. Congenital diaphragmatic hernia</i> Etiology, pathogenesis, clinical presentations, diagnostics and surgical treatment of congenital diaphragmatic hernia. Preparation and indications to surgery.</p> <p><i>5. Gastroschisis and omphalocele</i> Etiology, pathogenesis, clinical manifestations, diagnostics and treatment of gastroschisis and omphalocele. Tactics of the pediatrician and a condition of transportation of newborns with congenital malformations to the specialized center.</p>
4.	<i>Congenital defects and diseases of the gastrointestinal tract in children</i>	<p><i>1. Hypertrophic pyloric stenosis</i> Etiology, pathogenesis, clinical presentations, diagnostics and surgical treatment of hypertrophic pyloric stenosis. Preparation and indications to surgery.</p> <p><i>2. Hirschsprung's disease</i> Etiology, pathogenesis, clinical presentations, diagnostics and surgical treatment of Hirschsprung's disease in newborn, infants and older children. Preparation and indications to surgery.</p>
5.	<i>Children's urology-Andrology</i>	<p><i>1. Anomalies of kidneys, ureters, bladder.</i> Embryogenesis of malformations. Classification. Modern features of the antenatal diagnosis. Algorithm of actions and survey program in children. Hydronephrosis. Doubling the upper urinary tract. Extrophy of the bladder.</p> <p><i>2. Inguinal hernia, hydrocele</i></p>

		<p>Etiology, pathogenesis. Clinical manifestations and diagnostics. Tactics surgical treatment. Incarcerated inguinal hernia. Clinical manifestations and diagnostics. Tactics surgical treatment.</p> <p><i>3. Cryptorchidism</i> Clinical manifestations and diagnostics. Tactics surgical treatment.</p> <p><i>3. Varicocele.</i> Etiology, pathogenesis, diagnosis, treatment tactics.</p> <p>Pathology of foreskin in children. Phymosis, paraphimosis. Clinical manifestations and diagnostics. Tactics surgical treatment.</p> <p><i>4. Testicular torsion</i> Clinical manifestations and diagnostics. Tactics surgical treatment.</p> <p><i>5. Bladder-ureteral reflux</i> Clinical manifestations and diagnostics. Tactics surgical treatment.</p>
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5.2. Sections and types of studies

No.	Name of the course section	L	S	P	CP	LBP	SBP	UW	Total hours
1.	Surgical infection in children	2			10		5		17
2.	Emergency Abdominal Surgery	4			10		5		19
3.	Emergencies in newborn	2			5		3		10
4.	Congenital defects and diseases of the gastroin-testinal tract in children	2			5		5		12
5.	Children's urology-Andrology	2			5		5		12
	Total:	12			35		25		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.	Surgical infection in children	Report on the topic of classes in the form of a presentation	Oral (presentation)
2.	Emergency Abdominal Surgery	Report on the topic of classes in the form of a presentation Clinical case analysis in the	Oral (presentation, report)

		form of a presentation	
3.	Emergencies in newborn	Clinical case analysis in the form of a presentation Clinical case analysis in the form of a presentation Clinical case analysis in the form of a presentation	Oral (presentation, report)
4.	Congenital defects and diseases of the gastrointestinal tract in children	Clinical case analysis in the form of a presentation Clinical case analysis in the form of a presentation	Oral (presentation, report)
5.	Children's urology- Andrology	Clinical case analysis in the form of a presentation Clinical case analysis in the form of a presentation	Oral (presentation of projects)

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 - __ Knowledge tests (student's auditory on the department)
(name of the stage)
2. Stage - _ Knowledge tests Describing of the X-Ray (student's auditory on the department)
(name of the stage)
3. Stage - Knowledge tests Cases discussion
(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 [Текст]/ B. D. Chaurasia's Vol. 3 : Head-Neck Brain/ ed.: G. K. Garg, PS Mittal, M. Chandrupatla. -6 th ed.. -New Delhi, 2013. -463 p.

2.Chaurasia's B. D.. Human Anatomy. Regional and Applied. Dissection and Clinical [Текст]/ B. D. Chaurasia's Vol. 2 : Lower Limb. Abdomen and Pel-vis/ ed.: G. K. Garg, PS Mittal, M. Chandrupatla. -6 th ed.. -New Delhi, 2013. -463 p.

3.Chaurasia`s B. D.. Human Anatomy. Regional and Applied. Dissection and Clinikal [Text] / B. D. Chaurasia`s Vol.1 : Upper Limb and Thorax: CBS Publishers&Distributors, 2013. -311 p.: il.

8.2. Supplementary literature

1.Laparoscopy in children [Text] : / [Schier F.]; Springer, 2003. – 148 p.

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

№	Resources	URL address	Resource Annotation
1	https://www.coursera.org/	https://www.coursera.org/learn/osnovy-travmatologii	Emergency surgical pathology in children
2	https://www.coursera.org/	https://www.coursera.org/learn/voprosy-patologii?	Issues of Pathology and Pathologic Anatomy)
3	https://www.edx.org/	https://www.edx.org/course/surgery?	So You Want To Be A Surgeon? Learn from world-class surgical experts from 15 subspecialties of HKU Medicine!
4	Udemy https://www.udemy.com/	https://www.udemy.com/course/utyvxdmr/	Course on working for children's injuries and relationships with parents
5	http://openlearn.open.ac.uk/	https://www.open.edu/openlearn/health-sports-psychology/healthcare-careers/hospital-preparing-surgery	Hospital: Preparing for surgery
6	http://ocw.mit.edu/	https://ocw.mit.edu/courses/health-sciences-and-technology/hst-s14-health-information-systems-to-improve-quality-of-care-in-resource-poor-settings-spring-2012/lectures-and-videos/7.-who-safe-surgery-and-safe-childbirth-checklists/	The World Health Organization Safe Surgery and Safe Childbirth Programs
7	http://ocw.mit.edu/	https://ocw.mit.edu/courses/health-sciences-and-technology/hst-930j-social-studies-of-bioscience-and-biotech-fall-2005/readings/	Vacanti, J. P., and R. Langer. "Tissue Engineering: the design and fabrication of living replacement devices for surgical reconstruction and transplanation." Lancet 354 (1999): 32-34. (Suppl 1)
8	Massachusetts Institute of Technology (CIHA)	https://ocw.mit.edu/courses/health-sciences-and-technology/hst-s14-health-information-systems-to-improve-quality-of-care-in-resource-poor-settings-spring-2012/lectures-and-videos/MITHST_S14S12_lec13_1108.pdf	The World Health Organization Safe Surgery Checklist
9	http://unow.nottingham.ac.uk/	https://rdmc.nottingham.ac.uk/handle/internal/244	Using composite materials to replace bone

10	http://videlectures.net /	http://videlectures.net/cogsys2012_fiorini_surgery/	Cognitive Robotic Surgery: Participation to EUROSURGE
11	Database of scientific journals. Scientific electronic library eLIBRARY.RU	http://www.elibrary.ru	Scientific periodicals
12	Database «Web of Science» (WOS)	https://www.webofscience.com	Abstracts and links to full texts in primary sources
13	Database «Scopus»	https://www.scopus.com/	Abstracts and links to full texts in primary sources
14	Electronic resources publishing “Wiley”	https://onlinelibrary.wiley.com/	Scientific journals
15	PubMed Central (PMC)	http://www.pubmedcentral.nih.gov	Full-text archive of biomedical journals of the US National Medical Library
16	EBSCO Open Dissertations Database	https://biblioboard.com/opendissertations/	Thesis and dissertations in English
17	Publishing databases: Bentham Open Access, Karger Open Access Journals, Thieme Open, Directory of Open Access Journals (Doaj)	benthamopen.com/browse-by-subject/S17/1/ https://www.karger.com/openaccess https://open.thieme.com/ https://doaj.org/	Open access magazines
18	Publishing WHO. Database "Global Index Medicus". World Health Organization	https://www.who.int/ru	Information materials, WHO reports, etc.

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 (edu.nsmu.ru)	4 course General Medicine Pediatric Surgery https://edu.nsmu.ru/	Mixed learning "+ E-course "

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	Classroom for conducting seminar-type classes	Ave Obvodnii Canal, 7, building 3, Department of Pediatric Surgery, room 2	<ol style="list-style-type: none"> Schemes and stands with general information about surgical pathology. <ul style="list-style-type: none"> - Intestinal obstructions; - Malrotation; - Esophageal atresia; - Imperforate anus; - Acute destructive pneumonia; - Acute appendicitis; - Peritonitis; - Inguinal hernia; - Hypospadias;

			<ul style="list-style-type: none"> - Varicocele. <p>2. Practical training is followed by demonstration of patients. Educational movies, are shown at lectures and a practical training. Audiovisual, technical and computer tutorials:</p> <ul style="list-style-type: none"> - Tables; - Photos; - Video-lectures in surgical problems in newborns; - Films about surgical technologies; - X-RAY's about surgical pathology; - Model skeleton of the person; - Newborn's model <p>(thematic use of video materials depends on teacher)</p>
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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

Head of the department



O.I. Vorobyova

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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 (FSSES) 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 socio-political 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, socio-cultural 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 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 take into account the diversity of cultures in the process of intercultural interaction	ID-5.1. Respects ethical standards and human rights ID-5.2. Analyzes and takes into account ethnocultural, national and confessional peculiarities in professional activity ID-5.3. Forms a tolerant environment for interaction when performing professional tasks ID-5.4. Overcomes barriers in the process of intercultural interaction
Universal competencies (UC)-№9 Able to use basic defectological knowledge in social and professional spheres	UC-9.1. Applies effective communication and creates a tolerant environment when interacting with people with disabilities and people with disabilities in social and professional activities UC-9.2. Provides medical, social and organizational support to 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 workload	720							

5. Course content:

5.1. Contents of the sections of the course

No	Name of the course section	Content of the section
	Repetition (basic information about the language obtained in the course "Foreign language")	<p>Repetition of basic information about the language, basic reading rules. Grammar. Noun: gender, number, singular case forms (nominative and prepositional). Thematic group "Names of persons by sex, age, profession, etc.", "Kinship terms". Russian proper names. Pronouns. Personal pronouns. Meaning, case forms and use. Possessive and demonstrative pronouns. Meaning, forms of genus and use. Concordance with a noun ..</p> <p>Adjective. Full adjectives: agreement in gender and number with the noun in the nominative case. Brief adjectives .. Thematic groups "Color", "Size", etc., evaluative adjectives.</p> <p>The verb as the center of the sentence. infinitive. Species-tense forms of the verb. Verb conjugations. Imperative.</p> <p>Numeral. Cardinal and ordinal numbers in the nominative case.</p> <p>Adverbs of place, time, measure and degree. predicative adverbs, interrogative adverbs ..)</p> <p>Prepositions, conjunctions, particles.</p> <p>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.</p> <p>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).</p> <p>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)</p> <p>Electronic explanatory dictionaries (ABBY Lingvo live) Educational YouTube channels for learning Russian as a foreign language: RikiStudy, RussianLessons.Net; Learn Russian with RussianPod101.com</p>
	Main course: (lexical minimum, grammar topics)	<p>Vocabulary</p> <p>Words, phrases, lexical phrases and constructions that provide</p> <ul style="list-style-type: none"> - generation and understanding of texts within the framework of the studied 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. <p>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).</p>

	<p>The lexical minimum includes linguistic terms, medical vocabulary and vocabulary of social, everyday and socio-cultural spheres of communication.</p> <p>Grammar: cases of nouns.</p> <p>Prepositional case of nouns.</p> <p>Meanings:</p> <ul style="list-style-type: none"> - в, на – place (Отец работает в банке.); - в, на – location (Книги на столе.); - о – 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.) <p>Functions:</p> <ul style="list-style-type: none"> - object (Виктор рассказал о семье.); - circumstance of place (Я живу в Москве.); - circumstance of time (Я приехал в сентябре.). <p>Accusative case of nouns</p> <p>Meanings:</p> <p>a) without preposition:</p> <ul style="list-style-type: none"> - 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 : <ul style="list-style-type: none"> а) 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.); <p>б) with prepositions:</p> <ul style="list-style-type: none"> 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). <p>Functions:</p> <ul style="list-style-type: none"> - 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.). <p>Accusative inanimate nouns. Transitive verbs читать, учить, слушать, смотреть, хотеть, делать, писать и др., which are used with accusative nouns without a preposition.</p> <p>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.</p> <p>Genitive case of nouns.</p> <p>Meanings:</p> <p>a) without preposition:</p> <ul style="list-style-type: none"> - the person who owns something (Эта книга моего друга.);
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	<p>- social family relations (Анна – секретарь декана. Борис – брат Виктора.);</p> <p>- the absence of a person, an object (У меня нет брата. В городе нет театра.);</p> <p>- definition of the subject (Улица Гагарина);</p> <p>- amount, measure</p> <p>а) in combination with cardinal numbers 2-4, 5-20, in a strictly limited set (два брата, пять студентов, 2 часа, 5 рублей);</p> <p>б) with words сколько, много, мало, несколько (Сколько студентов в группе?);</p> <p>- exact date of the event, action (Он родился 10-го мая 1999-го года.);</p> <p>- name of the month in the date (Сегодня первое сентября.).</p> <p>б) with prepositions:</p> <p>у – a person who owns something (У Виктора есть машина.);</p> <p>у – location associated with the person (Я был у врача.);</p> <p>около, (не)далеко/близко от – location (Мы живём недалеко от университета.);</p> <p>из, с, от - starting point of movement: place, face (Он приехал из Индии. Он пришёл со стадиона. Я пришёл от врача.);</p> <p>до – final destination of the movement (Как доехать до центра?);</p> <p>до, во время, после – time of action (Во время войны он работал врачом в госпитале.);</p> <p>от - object to move away from (Он отошёл от окна.);</p> <p>без – absence of anything (чай без сахара).</p> <p>Functions:</p> <p>- logical subject (У Рахула есть сестра.);</p> <p>- object when negated (У меня нет словаря.);</p> <p>- object (Я был на открытии выставки.);</p> <p>- definition of the subject (день спорта, кабинет декана);</p> <p>- circumstance of place (Он приехал из Англии.).</p> <p>- circumstance of time (Она пришла после обеда.);</p> <p>Formation and use of adjectives, possessive pronouns and ordinal numbers in the genitive case.</p> <p>Dative case of nouns.</p> <p>Meanings:</p> <p>а) without preposition:</p> <p>- person who is in need of something (Мне надо позвонить.);</p> <p>- addressee of the action (Я написал письмо маме);</p> <p>- person experiencing a certain physical or emotional state (Мне нравится играть в футбол. Детям холодно.).</p> <p>- age of the person, the object (Сестре 20 лет. Городу 1000 лет.);</p> <p>б) with preposition:</p> <p>к – person as a target of movement (в ограниченном наборе) (Я иду к врачу.);</p> <p>к - person, object as the target of the approach (Мы подъехали к общежитию. Студент подошёл к преподавателю.);</p> <p>по – place of movement (Друзья гуляли по городу.);</p> <p>по – means of communication (Я говорю по телефону.)</p> <p>;по – sign of the subject in relation to the field of knowledge (Студенты слушали лекции по анатомии.);</p> <p>Function:</p>
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	<p>- indirect object (Сампада позвонила подруге.);</p> <p>- logical subject (Мне нравится анатомия.);</p> <p>- circumstance of :</p> <p style="padding-left: 40px;">а) place (Я иду к врачу.);</p> <p>б) mode of action (Я получил письмо по факсу.);</p> <p>- definition (У студентов был экзамен по биохимии.).</p> <p>Dative case in impersonal constructions (дат. п. + нужно / можно / нельзя / трудно / легко. Dative case with verbs of movement</p> <p>Formation and use of adjectives, possessive pronouns and ordinal numbers in the case.</p> <p>Instrumental case of nouns.</p> <p>Meanings:</p> <p>а) with preposition:</p> <p>- characteristic, sign of a person, an object with the verbs быть , стать, работать (Я буду врачом. Отец работает инженером.);</p> <p>- object of interest, activities (Студенты занимаются спортом. Я интересуюсь анатомией).</p> <p>б) with prepositions:</p> <p>с – togetherness (Набил был в магазине с другом .);</p> <p>с – characteristic of the object (Я пью чай с молоком.);</p> <p>рядом с - location (Мой друг живёт рядом с аптекой.);</p> <p>перед – time (Консультация будет перед экзаменом.).</p> <p>Functions:</p> <p>- predicate (Он был врачом.);</p> <p>- object (Отец гулял с сыном.);</p> <p>- definition (Я люблю чай с сахаром.);</p> <p>- circumstance of:</p> <p style="padding-left: 40px;">а) place (Сестра живёт рядом с магазином.);</p> <p style="padding-left: 40px;">б) time (Перед экзаменом я много занимался.)</p> <p>Formation and use of adjectives, possessive pronouns and ordinal numbers in the instrumental case.</p> <p>Grammar: Verbs</p> <p>Conjugation of verbs. Perfect and imperfect verbs. Formation of perfective 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.</p> <p>Verbs: идти-ходить, ехать-ездить.</p> <p>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.</p> <p>Meanings of verbs of movement with prefixes</p> <p>- по- - beginning of the movement (пойти, поехать);</p> <p>- при- - achievement of the ultimate goal of the movement (прийти, приехать);</p> <p>- у- - moving away from certain places (уйти, уехать);</p> <p>- в(о)-, в- - move inside (войти, въехать);</p> <p>- вы- - move outside (выйти, выехать);</p> <p>- под- - approaching a certain object (подойти, подъехать);</p> <p>- от- - moving a certain distance (отойти , отъехать);</p> <p>- пере- - moving from one place to another (перейти, переехать);</p> <p>- до- - reaching the final goal of the movement (доехать, дойти).</p>
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	<p>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.</p> <p>Verbs of unidirectional and multidirectional movement идти (пойти) – ходить, ехать (поехать) – ездить в in the present, past future tense and imperative mood.</p> <p>Verbs of movement combined with nouns. Prepositions В and НА 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.)</p> <p>verbs in combination with animate nouns in the dative case with the preposition К indicating the direction (идти к врачу, к другу) и предлогом ОТ + родительный падеж с противоположным значением (идти от врача, от друга)</p> <p>Grammar - Syntax</p> <p>Simple and complex sentences. Simple and complex-composed sentences on an extended set of lexical-grammatical material. Complex sentences (explanatory, attributive, temporary, conditional, target).</p> <p>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)</p> <p>Electronic explanatory dictionaries (ABBY Lingvo live) Educational YouTube channels for learning Russian as a foreign language: RikiStudy, RussianLessons.Net; Learn Russian with RussianPod101.com</p>
Speech topics (dialogues, texts on everyday, educational, professional topics)	<p>Speech practice:</p> <p>Conversational topics: "My working day", "My day off", "Birthday", "Russian language lesson", "My future profession" "About myself", "My family", "My friend" ("My girlfriend") - expansion of the topic.</p> <p>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"</p> <p>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".</p> <p>Dialogues: "At the reception", "At the doctor's appointment", "At the pharmacy", "Calling an ambulance."</p> <p>Speaking:</p> <p>Monologue speech: A story on a given topic.</p> <p>Dialogue speech: influence, negotiate, maintain dialogue in situations related to the topics studied.</p> <p>Listening:</p> <p>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.</p> <p>Reading:</p>

		<p>Types of reading: reading with general content coverage, learning reading, browsing and searching reading.</p> <p>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).</p> <p>Letter:</p> <p>Based on the text read</p> <ul style="list-style-type: none"> - 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. <p>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.</p> <p>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).</p> <p>Electronic translators (PROMT machine translation system, Yandex translator, Google Translate)</p> <p>Electronic explanatory dictionaries (ABBY Lingvo live) Educational YouTube channels for learning Russian as a foreign language: RikiStudy, RussianLessons.Net; Learn Russian with RussianPod101.com.</p>
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2nd year

№	Name of the discipline section	Contents of section
1	2	3
1	Repeat the material learnt in the first year	<p>Input control</p> <p>Revision of grammar material of the 1st course: prepositional-singular system of nouns, adjectives and pronouns (demonstrative and possessive)</p> <p>Plural Nominative case of nouns, adjectives, demonstratives, and possessive pronouns</p> <p>Verbs of movement (идти – ходить, ехать – ездить)</p> <p>Time constructs (когда? Как долго? Как часто?)</p> <p>The text " M. V. Lomonosov, the great Russian scientist "(see text in the App)</p> <p>Vocabulary: название практики, больница, стационар, приемное отделение, терапевтическое отделение, помещения в отделении, мебель, сантехническое оборудование, медицинский</p>

	Basics of professional communication	<p>персонал, одежда и обувь медперсонала, медицинские предметы, белье постельное и нательное, объективные показатели физического состояния пациента (рост, вес, пульс, давление, температура)</p> <p>Conversational topic "Preparing for practice in the hospital"</p> <p>Control under section 1</p>
2	<p>Genitive plural of nouns, adjectives, possessive pronouns, and demonstrative pronouns.</p> <p>Basics of professional communication</p>	<p>Nouns, adjectives, and demonstrative and possessive pronouns in the genitive plural</p> <p>Use of the pronoun "себя"</p> <p>Numerals + nouns (Genitive plural)</p> <p>Text "Doctor Elena" (textbook by Yu. G. Ovsienko)</p> <p>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?»</p> <p>Conversational topic "At a doctor's appointment"</p> <p>Control under section 2</p>
3	<p>Accusative plural of nouns, adjectives, possessive pronouns, and demonstrative pronouns.</p> <p>Basics of professional communication</p>	<p>Nouns, adjectives and demonstrative and possessive pronouns in the Accusative case plural</p> <p>Groups of verbs (идти – ходить, видеть – смотреть, слышать – слушать, брать/взять, покупать / купить, показывать / показать, сдавать / сдать, есть/ съесть, пить / выпить, лечить/вылечить, чистить / вычистить, выписывать/выписать, мыть / вымыть, принимать / принять, лечить/вылечить)</p> <p>The text "Dr. Lisa" (see text in the App)</p> <p>Vocabulary on the topic «Острые респираторные заболевания»: простуда, простудиться, повышенная температура, насморк, кашлять (кашель), чихать (чихание), осложнение, измерять/измерить (что?)</p> <p>The construction “при + prepositional case”</p> <p>The text "Острые респираторные заболевания" (see text in the App)</p> <p>Conversation topic «Colds Prevention»</p> <p>Control under section 3</p>

4	Prepositional plural of nouns, adjectives, possessive pronouns, and demonstrative pronouns Basics of professional communication	<p>Nouns, adjectives, and demonstrative and possessive pronouns in the Prepositional plural</p> <p>Verbs: находиться, родиться, жить, лечиться, рассказывать/рассказать, брать/взять, покупать/ купить, спрашивать/спросить, выступать/ выступить, думать/подумать</p> <p>Text of "М. В. Пиккель " (see the text in the appendix)</p> <p>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)</p> <p>The text "Angina" (see text in the App)</p> <p>Colloquial topic "Strengthening the immune system"</p> <p>Control under section 4</p>
5	Dative case of plural nouns, adjectives, possessive and demonstrative pronouns Basics of professional communication	<p>Nouns, adjectives, and demonstrative and possessive pronouns in the Dative plural</p> <p>Sentences with the word «который», которая, которое, которые</p> <p>The "надо, нужно + infinitive" construction</p> <p>The text " Anton Pavlovich Chekhov " (see text in the App)</p> <p>Verbs: давать/ дать, объяснять / объяснить, назначать / назначить, посылать / послать, говорить / сказать, идти – ходить к (кому?)</p> <p>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.</p> <p>The text "Bronchitis" (see text in the App)</p> <p>Conversational topic of the "Healthy Lifestyle" block: "Bad habits"</p> <p>Control under section 5</p>
6	Instrumental case of plural nouns, adjectives, possessive and	<p>Nouns, adjectives and demonstrative and possessive pronouns in the Instrumental case plural</p> <p>Verb groups: заниматься / заняться, встречаться / встретиться, идти</p>

	<p>demonstrative pronouns</p> <p>Basics of professional communication</p>	<p>– ходить, знакомиться / познакомиться, здороваться / поздороваться, прощаться / попрощаться, питаться, болеть / заболеть, лечиться</p> <p>Text "The city on the banks of the Northern Dvina" (see text in the App)</p> <p>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.</p> <p>The text "Flu" (see text in the App)</p> <p>Colloquial topic "Care for infectious patients"</p> <p>Control under section 6</p>
7	<p>Verbs of movement</p> <p>Basics of professional communication</p>	<p>Unidirectional and multidirectional verbs</p> <p>Verbs without prefixes: идти – ходить, ехать – ездить, and with prefixes: прийти, уйти, приехать, уехать</p> <p>The "чтобы + infinitive" construction</p> <p>The text of "V. A. Kudryavtsev" (see text in the App)</p> <p>Vocabulary on the topic "Stomach aches" (живот, желудок, кишечник, слизистая оболочка, питание, нарушение стула, тошнота, рвота, плохой аппетит)</p> <p>The text "Gastritis" (see text in the App)</p> <p>Conversational topic of the "Healthy Lifestyle" block: "Proper nutrition"</p> <p>Control under section 7</p>
8	<p>Degrees of comparison of adjectives and adverbs</p>	<p>Comparative degree of adjectives and adverbs (больше/меньше, лучше / хуже, дальше / ближе, дороже / дешевле, старше / младше, теплее / холоднее, труднее / легче, громче / тише, реже / чаще)</p> <p>Superlative degree of adjectives (самый+ adjective)</p> <p>Text "Medical care in Russia" (see text in the App)</p>

	Basics of professional communication	<p>Vocabulary on the topic " Allergy "(аллергия аллерген, зуд, покраснение, слезы, наследственность, иммунитет, экология, образ жизни)</p> <p>Forms of the imperative mood (ешьте, не пейте, etc.)</p> <p>The text "Allergy" (see text in the App)</p> <p>Conversational topic of the "Healthy Lifestyle" block: "Compliance with sanitary and hygienic standards"</p> <p>Control under section 8 9</p>
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

№ п/п	Name of the discipline section	Contents of section
1.	Repetition of the material studied in the first year. The profession of a doctor. Patient's medical record	<p>Entrance control</p> <p>- Lexico-grammatical test (Moodle).</p> <p>Repetition of grammatical material of the 2nd course:</p> <p>- Fundamentals of professional communication (medical vocabulary);</p> <p>- Genitive plural of nouns, adjectives, possessive and demonstrative pronouns.</p> <p>- Accusative plural of nouns, adjectives, possessive and demonstrative pronouns.</p> <p>- Prepositional plural of nouns, adjectives, possessive and demonstrative pronouns</p> <p>- Dative plural of nouns, adjectives, possessive and demonstrative pronouns</p> <p>- Instrumental plural of nouns, adjectives, possessive and demonstrative pronouns</p> <p>- Verbs of movement</p> <p>- Comparison of adjectives and adverbs</p> <p>Control work on section No. 1.</p>
2.	First practice at a medical university Grammar: Verbs. Specific pairs of verbs. Verbs with a particle –ся. Movement verbs. Basics of professional communication	<p>Specific pairs of verbs of different groups.</p> <p>Verbs with a particle –ся.</p> <p>Reflexive verbs.</p> <p>Passive verbs.</p> <p>Movement verbs with different prefixes.</p> <p>Specific pairs of verbs of movement.</p> <p>Label constructions "Appeal", "Ways to attract attention" Medical terms Professional</p>

		text "First practice at a medical university" (part 1) Control work on section No. 2.
3.	Verb forms. The verbal participle. Participle. Basics of professional communication	Word formation of verb forms (participles and participles). Participle sentence = sentence with the word "который". Exam topic "Practice in the hospital". Control work for section No. 3
4.	Musculoskeletal system. Bones and Muscles. Grammar: Active, passive constructs. Basics of professional communication	Short forms of participles. Examples of the use of short participles and verbs in passive constructions. Label constructions "Gratitude", "Apology" Medical terms Professional text "Musculoskeletal system. Bones and Muscles" Control work on section No. 4.
5.	Musculoskeletal system. The structure of the human skeleton Grammar: Expressing tense in simple and complex sentences Basics of professional communication	Expression of tense by a noun in the accusative case without a preposition and with 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) Time constructions «за... до ...», «через ... 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 "
6.	Musculoskeletal system. Human skeleton. Posture. Grammar: Expressing cause and effect in a simple and complex sentence. Basics of professional communication	Expression of cause in a simple sentence (из-за, от + сущ. в Р.п.; благодаря, по + сущ. в Д.п.). Expression of reason in a simple sentence (предлоги: из-за того что, благодаря тому что, потому что, так как) Expression of effect. Medical terms. Professional texts «Musculoskeletal system. Human skeleton. Posture.
7.	Control slice of knowledge for the 5th semester	Doctor-patient dialogue, final test
8.	Musculoskeletal system. Diseases and injuries.	Expressing purpose in a simple sentence (предлог + сущ. в Р.п, Т.п, В.п.)

	Grammar: Expressing purpose and condition in a simple and complex sentence. Basics of professional communication	Expression of purpose in a complex sentence. Constructions «чтобы + прош. вр.», «чтобы + 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, potential and surreal conditions. Medical terms Professional text «Musculoskeletal system. Diseases and injuries»
9.	Doctors of Russia. Grammar: Expressing concession in a simple and complex sentence. Basics of professional communication	Expressing concession in a simple sentence (несмотря на + сущ. в В.п) Expressing concession in a complex sentence (союзы: несмотря на то что, хотя) Etiquette constructions "Regret, sympathy" Medical terms Professional texts "Doctors of Russia"
10.	Dative impersonal constructions Basics of professional communication	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. Medical terms Exam topic "Doctors of Russia"
11.	Repetition of the material learned. Exam topics "Doctors of India", "Healthy lifestyle", "Physical inactivity" Basics of professional communication	Prepositional-case system The kind of the verb. Impersonal forms of the verb. Simple and complex sentence. Expression of different meanings in a simple and complex sentence. Formation of verbal nouns. Control on the topic "Medical vocabulary"
12.	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 section	Contents of the section
	SECTION 1.1. 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." "Smallpox". "Spanish influenza". "AIDS: the XXI century plague". Lexicaltools:

	<p>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.)</p> <p>2. Fundamental systems of human organs. Human skin, its structure and functions. General surveying of the skin. Working with video materials "Human skin".</p> <p>Lexicaltools:</p> <p>Кожный покров, наружный покров тела, кожа, потоотделение, мочеви́на</p> <p>наружный слой / эпидермис, средний слой / дерма, внутренний слой / подкожная жировая клетчатка /гиподерма</p> <p>защитная функция, терморегуляторная функция, выделительная функция</p> <p>вредное воздействие, предохранять от (чего?), защищать от (чего?), защищать от ультрафиолетовых лучей</p> <p>GRAMMAR:</p> <p>Word-building structure of noun and adjective. Prepositional-case system of nouns, adjectives, pronouns in the singular and plural.</p> <p>(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.)</p> <p>READING: Professionally oriented texts "What is plague?"</p>
<p>SECTION 1.2. Conversation topic "Diseases of the XX and XXI centuries." Fundamental systems of human organs. Human skin.</p>	<p>COMMUNICATION PRACTICE:</p> <p>Conversation topic "Diseases of the XX and XXI centuries." "Cardiovascular diseases". "Diabetes". Osteochondrosis. "Oncological diseases". "Obesity", "Depression".</p> <p>Lexicaltools:</p> <p>причины, факторы, патология, характерный, двигательный, правильный / неправильный, вредный / полезный, опасный;</p> <p>сердечно-сосудистые заболевания, малоподвижный образ жизни, инфаркт, инсульт, ишемическая болезнь сердца, сахарный диабет, переедание, сладкая пища;</p>

		<p>остеохондроз, заболевания позвоночника, межпозвоночные диски, связки, костная ткань, мышечная ткань;</p> <p>опухоль, онкологический, аллергический, доброкачественный, злокачественный;</p> <p>онкологические заболевания; переедание, повышенное давление;</p> <p>сниженноенастроение, концентрациявнимания</p> <p>2. Fundamental systems of human organs. Skin diseases. Working with video materials “Healthy means wealthy! Summer epidemic: scabies ”(05/25/2018, 26-34 min).</p> <p>Lexicaltools:</p> <p>цвет кожи, окраска кожи, патологическая окраска кожи, гиперемия, покраснения на коже, влажность кожи, сухость кожи, чистые покровы;</p> <p>бледная, синюшная (цианоз кожи), розовая, бронзовая, красная, землистая, желтушная / иктерическая кожа;</p> <p>пятна, папулы, волдыри, пузыри, пузырьки, чешуйки, ссадины, трещины, корки, язвы.</p> <p>GRAMMAR: Word-building structure of noun and adjective. Prepositional-case system of nouns, adjectives, pronouns in the singular and plural.</p> <p>(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.)</p> <p>READING: Professionally oriented texts: 'What should everyone know about diabetes? ', 'What should we know about cardiovascular diseases?'</p>
	<p>SECTION 1.3.</p> <p>Conversation topic "Diseases of the XX and XXI centuries."</p> <p>Fundamental systems of human organs.</p> <p>Human skin.</p>	<p>COMMUNICATION PRACTICE:</p> <p>1. Conversation topic "Diseases of the XX and XXI centuries." Revising the topic.</p> <p>Lexical tools: revising the vocabulary given on the previous classes.</p> <p>2. Fundamental systems of human organs. Skin diseases. Dialog “At the dermatologist’s attendance”.</p> <p>Lexicaltools:</p> <p>симптомы заболеваний кожи: зуд, высыпания, чувство жжения, чувство покалывания, шелушение кожного покрова, бессонница;</p> <p>местное лечение, аэрозоли, мази, пасты, масла, компрессы, пластыри, лечебные мыла.</p> <p>GRAMMAR: Derivational structure of the verb. The imperative mood of verbs. Verbs in an imperative.</p>

		<p>(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.)</p> <p>READING: Professionally oriented texts: "What should you know about oncology?" / "What is the danger of pediculosis?"</p> <p>Control according to section 1. Lexico-grammatical test / Control work.</p>
	<p>2.1. Conversation topic "Fundamental principles of medical ethics".</p> <p>Fundamental systems of human organs.</p> <p>Excretory system.</p>	<p>COMMUNICATION PRACTICE:</p> <p>1. Conversation topic "Fundamental principles of medical ethics". "The profession of a doctor."</p> <p>"Professional behavior of a doctor"</p> <p>Lexical tools:</p> <p>Медицинская этика, правила и нормы поведения медицинского персонала, сформулировать принципы медицинской этики;</p> <p>Человеколюбие, сострадание, милосердие, доброта, отзывчивость, внимательное отношение к больному;</p> <p>речь доктора, чувство такта, поднять больному настроение, хранить врачебную тайну, совершенствоваться в своей профессии, читать научную литературу, участвовать в форумах врачей, обмениваться опытом;</p> <p>опрятный вид, чистый халат, чистая шапочка, аккуратная сменная обувь, чистые руки, коротко остриженные ногти.</p> <p>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)</p> <p>Lexical tools:</p> <p>Выделительная система, продукты метаболизма, углекислый газ, азотсодержащие вещества, аммиак, мочеви́на, креатинин, мочева́я кислота;</p> <p>Органы выделения, почки, лёгкие, желудочно-кишечный тракт, потовы́е железы, слюнные и желудочные железы, поджелудочная железа, кишечные железы</p> <p>GRAMMAR: Derivational structure of the verb. Imperfective and perfective verbs.</p> <p>(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.)</p> <p>READING: Professionally oriented texts: "Medical ethics: every doctor should know about it"</p>
	2.2. Conversation	COMMUNICATION PRACTICE:

	<p>topic "Fundamental principles of medical ethics". Fundamental systems of human organs. Excretory system.</p>	<p>1.Conversation topic "Fundamental principles of medical ethics". "The Hippocratic Oath". "Contemporary Issues of Medical Ethics"</p> <p>Lexicaltools: даватьклятвуГиппократ, древняяпрофессиональнаяклятваврача, взаимоотношения, деятельность, межличностный, обязанность, ответственность; физические и нравственные страдания, привести к физическим и нравственным страданиям пациентов; пересадка органов, донор, реципиент, эвтаназия.</p> <p>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</p> <p>Lexicaltools: пиелонефрит, мочекаменная болезнь почек, опухоли, уретрит, цистит воспалительный процесс, возбудитель, очаг воспаления, стафилококк, стрептококк, энтерококк, болезненное мочеиспускание общийанализмочи</p> <p>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.)</p> <p>READING: Professionally oriented texts: "The underlying causes of kidney disease" / "Why do people need salt?"</p>
	<p>2.3. Conversation topic "Fundamental principles of medical ethics".</p> <p>Fundamental systems of human organs. Excretory system.</p>	<p>COMMUNICATION PRACTICE:</p> <p>1.Conversation topic "Fundamental principles of medical ethics". Revising the topic.</p> <p>Lexicaltools: revising the vocabulary given on the previous classes.</p> <p>2.Fundamental systems of human organs. Excretory system. Diseases of the excretory system. Dialogue "At the Nephrologist's Attendance".</p> <p>Lexical tools: болит под рёбрами, болит под ложечкой, режет в боку, боль отдаёт иррадирует вправо, кожный зуд, желтушность кожи, горечь во рту, субфебрильная температура,</p>

		<p>боль резкая, острая, колющая, режущая, приступообразная.</p> <p>GRAMMAR: Modal verbs. Constructions МОЖНО/ НУЖНО/ СЛЕДУЕТ/НЕОБХОДИМО + infinitive.</p> <p>(The grammar is repeated, its studying is more profound and it's based on the texts of medical topics in this section.)</p> <p>READING: Professionally oriented texts "What is useful and what is bad for the kidneys" / "Why do people have different skin colors?"</p> <p>Control according to section 2. Lexico-grammatical test / Control work.</p>
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5.2. Sections and types of studies

1st year

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

2nd year

№	Name of the discipline section	L	S	P	CP	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 pronouns. Basics of professional communication							9	18

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

3rd year

№ п/п	Name of the discipline section	L	S	P	CP	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 –ся. Movement verbs. Basics of professional communication			12				6	18
3.	Verb forms. The verbal participle. Participle. Basics of professional communication			6				6	12

4.	Musculoskeletal system. Bones and Muscles. Grammar: Active, passive constructs. Basics of professional communication			9				9	18
5.	Musculoskeletal system. The structure of the human skeleton Grammar: Expressing tense in simple and complex sentences Basics of professional communication			9				9	18
6.	Musculoskeletal system. Human skeleton. Posture. Grammar: Expressing cause and effect in a simple and complex sentence. Basics of professional communication			9				9	18
7.	Control slice of knowledge for the 5th semester			3				3	6
8.	Musculoskeletal system. Diseases and injuries. Grammar: Expressing purpose and condition in a simple and complex sentence. Basics of professional communication			9				9	18
9.	Doctors of Russia. Grammar: Expressing concession in a simple and complex sentence. Basics of professional communication			6				6	12
10.	Dative impersonal constructions Basics of professional communication			6				6	12
11.	Repetition of the material learned. Exam topics "Doctors of India", "Healthy lifestyle", "Physical inactivity"			12				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 the course section	Types of the unsupervised work	Forms of control
1	Repetition (basic information about the language obtained in the course "Foreign language")	<p>Repetition and consolidation of systemic phonetic and spelling skills using:</p> <ul style="list-style-type: none"> - 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/Introduction/IntrUnit1/IntrUnit1.htm (IR training) <p>Reading text with preliminary preparation using text-to-speech software (ICE Book Reader Professional)</p> <p>2. Repetition and consolidation of the lexical and grammatical minimum using IT (interactive game tasks, exercises, simulators):</p> <ul style="list-style-type: none"> - grammar https://learningapps.org/5714683 https://wordwall.net/play/7554/255/347 https://wordwall.net/play/9302/126/426 https://wordwall.net/play/9303/553/992 	<p>Testing the reading technique. Vocabulary dictation. Checking written assignments in workbooks, oral questioning in the lesson. Control exercises in the lesson. Checking tasks in LMS Moodle. Testing.</p>

		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	
2	Main course: (lexical minimum, grammar topics)	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 говорящих на английском языке) [Текст] : [учебник]/ Ю. Г. Овсиенко Кн. 1: Русский язык, 2019. - 472 с.: ил. 2. Алексеева О.В. Рабочая тетрадь по русскому языку как иностранному (предложно-падежная система). Учебно-методическое пособие. - Архангельск, 2018. 152 с. 3. 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. 4. Орлова Л.В. Рабочая тетрадь. Основы медицинской лексики (элементарный уровень)/ Л.В.Орлова – Архангельск: Изд-во Северного государственного медицинского университета, 2019. - 85 с. Working with information and communication resources: Interactive game tasks 1. Cases of nouns https://wordwall.net/play/9819/124/166 2. Verbs of motion http://www.rus-on-line.ru/Exercises/Grammar/28-grammar.html Perfective-Imperfective Java Exercises is a network 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	Testing the reading technique. Vocabulary dictation. Checking written assignments in workbooks, oral questioning in the lesson. Control exercises in the lesson. Checking tasks in LMS Moodle. Testing.

		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	
3	Speech topics (dialogues, texts on everyday, educational, professional topics)	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 говорящих на английском языке) [Текст]: [учебник] / Ю. Г. Овсиенко. Кн. 1: Русский язык, 2016. - 472 с.: ил. 2. Алексеева О.В. Рабочая тетрадь по русскому языку как иностранному (предложно-падежная система). Учебно-методическое пособие. - Архангельск, 2018. 152 с. 3. Орлова Л.В. Рабочая тетрадь. Основы медицинской лексики (элементарный уровень) / Л.В.Орлова – Архангельск: Изд-во Северного государственного медицинского университета, 2016. - 85 с. Doing homework: working with speech topics (dialogues, texts for everyday, educational, professional). Textbooks and tutorials: 1. Ovsienko Yu.G. Russian for beginners (for those who speak English) [Text]: [textbook] / Yu. G. Ovsienko. Kn. 1: Russian language, 2016. -- 472 p. : ill. 2. Alekseeva O.V. Workbook on Russian as a foreign language (prepositional-case system). Study guide. - Arkhangelsk, 2018. 152 p. 3. Orlova L.V. Workbook. Fundamentals of medical vocabulary (elementary level) / L.V. Orlova - Arkhangelsk: Publishing house of the Northern State Medical University, 2016. - 85 p. 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_JDaHFAPEiFGDMddoIzA). THEMES LMS Moodle: https://edu.nsmu.ru/mod/quiz/attempt.php?attempt=1064859&cmid=72942	Role-playing games with various types of communication tasks. Conversation in the lesson. Individual survey. Online conference with native speakers (conversation on the topics studied: getting into real communication).

2nd year

- 1) 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=fullweb&C21COM=S&S21CNR=20&S21P01=0&S21P02=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>

№	Name of the discipline section	Types of independent work	Control forms
1	Repeat the material you learned in your first year. Basics of professional communication	Working with the Reference Book of medical terms (Maslova O. N., Alekseeva O. V. Reference book of medical terms)	Identification of the level of understanding of the material in practical lesson
2	Genitive plural of nouns, adjectives, possessive pronouns, and demonstrative pronouns. Basics of professional communication	Make a table "Names of internal organs of a human" in Russian and English	Vocabulary dictation and oral response in practical lesson
3	Accusative plural of nouns, adjectives, possessive pronouns, and demonstrative pronouns. Basics of professional communication	Learn vocabulary on the topic "Man and his body. Objective indicators of the patient's physical condition " (Maslova O. N., Alekseeva O. V. Handbook of medical terms)	Listening to a prepared monologue
4	Prepositional plural of nouns, adjectives, possessive pronouns, and demonstrative pronouns	Prepare a presentation about one of the named NSMU classrooms (N. Amosov Auditorium, Lomonosov Auditorium, Bychikhin Auditorium, Kudryavtsev Auditorium)	Active participation in the practical lesson
5	Dative case of plural nouns, adjectives, possessive and demonstrative pronouns	Prepare a message on one of the topics "Why is smoking dangerous?", " What is the danger of alcohol consumption?", " What causes overeating?"	Active participation in the practical lesson
6	Instrumental case of plural nouns, adjectives, possessive and demonstrative pronouns	Prepare a message about your favorite place in Arkhangelsk. Presentation	Active participation in the practical lesson

7	Verbs of movement	Using verbs of movement, compose a text on the topic "A trip home during the summer holidays"	Listening to an audio response
8	Degrees of comparison of adjectives and adverbs	Preparation for the colloquial topic "Components of the concept of healthy lifestyle"	Active participation in the practical lesson
9	Generalization of the studied material	Preparation of lexical material based on specified models 1) Name of the disease -ит 2) Doctor's name-лог 3) Department name-ия 4) Name of medicines -ин	Verification of completed materials

3rd year

- 1) Маслова, О.Н., Полуэктова Т.Д. «Свидание с аутентичным текстом» / Учебно-методическое 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>

№ п/п	Наименование раздела дисциплины	Виды самостоятельной работы	Формы контроля
1.	Repetition of the material studied in the first year. The profession of a doctor. Patient's medical record	Working with tables in the electronic course Moodle and a reference book of medical terms (Маслова О.Н., Алексеева О.В. Справочник медицинских терминов)	Revealing the level of understanding of the material in a practical lesson
2.	First practice at a medical university Grammar: Verbs. Specific pairs of verbs. Verbs with a particle –ся. 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.	Learn the medical terms on the topic	Vocabulary dictation and oral answer in a practical lesson

	Grammar: Active, passive constructs. Basics of professional communication		
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 concession in a simple and complex sentence. Basics of professional communication	Draw up the table "Musculoskeletal system" in Russian and English	Vocabulary dictation and oral answer in a practical lesson
10.	Dative impersonal constructions Basics of professional communication	Memorize the examination topic "Doctors of Russia"	Listening to a prepared monologue
11.	Repetition of the material learned. Exam topics "Doctors of India", "Healthy lifestyle", "Physical inactivity" Basics of professional communication	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

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)
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4th year

№	Name of the section	Types of unsupervised work	Forms of control
1	SECTION 1.1. Conversation topic "Diseases of the XX and XXI centuries." Fundamental systems of human organs. Human skin.	Input control. Revising of the vocabulary and grammar for the third year of study.	Lexico-grammatical test in the Moodle system
2	SECTION 1.1. Conversation topic "Diseases of the XX and XXI centuries." Fundamental systems of human organs. Human skin.	Working with video materials "Healthy means wealthy! Summer epidemic: scabies"(05/25/2018, 26-34 min).	Checking the exercises in the Moodle system
3	SECTION 1.3. Conversation topic "Diseases of the XX and XXI centuries." Fundamental systems of human organs. Human skin.	Reading: professionally oriented 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.	Checking pre-text 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	Revising the section 1. Lexico-grammatical test.	Lexico-grammatical test in the Moodle

	and XXI centuries." Fundamental systems of human organs. Human skin.		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. Lexico-grammatical 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 year

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 sentences using 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&S21P03=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-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/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

13. Овсиенко Ю.Г. Русский язык для начинающих. – М., 2016.
14. 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.
15. Русский язык как иностранный: базовый уровень: учебное пособие. / Н.Ф. Башарова и др. – Казань, 2017.
16. 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=2701343e3b1009cc31b0533o.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» / Учебно-методическое 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=2701343e3b1009cc31b0533o.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) : учебно-методическое 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
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8.3. List of the information and telecommunications Internet resources required for mastering of the course (module)*

1st year

№	Resources	URL address	Resource Annotation
Resources for learning curriculum (language theory) and practice exercises			
1	Electronic library of NSMU	http://www.nsmu.ru/lib/	The resource contains electronic versions of textbooks on Russian as a foreign language from the main list of literature.
2	Time to speak Russian	https://www.irlc.msu.ru/irlc_projects/speak-russian/time_new/	The site contains a variety of materials (lessons, grammar

			reference book, tests, dictionaries, etc.). Convenient interface, good structure of the course.
3	Lean Russian step by step	https://learnrussianstepbystep.com	The site provides lessons on all grammatical topics necessary for an elementary level, speech models and vocabulary tests are given in a separate section.
4	Everyday Russian	https://everydayrussianlanguage.com	The site contains educational materials (lessons with explanations of grammar, tasks for mastering vocabulary and grammar).
5	Russian for everyone	http://www.russianforeveryone.com	The site contains educational materials, including an introductory phonetic course, as well as thematic lessons.
6	Quizlet	https://quizlet.com	A resource containing a variety of flashcards for learning educational material as well as games.
Resources for training exercises and monitoring			
	Learningapps	https://learningapps.org	A site containing exercise 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://wordwall.net	A site containing templates for various tasks, including quizzes, word games, crosswords, which can be used both interactively and in print.
	Quizlet	https://quizlet.com	A resource containing a variety of flashcards for learning educational material as well as games.

2nd year

№	Resource name	URL address	Abstract of the resource
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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 (Русский язык для всех)	http://www.russianforeveryone.com/	Prepositional-case system in the singular, conjugation of verbs
2	Материалы по русскому языку как иностранному проф. Т.Байера (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. Conjunctions.
3	3 course Russian Language Russian Language as foreign	https://edu.nsmu.ru/course/view.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.org	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.departments.bucknell.edu/russian	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	http://www.iec.ru	Distance course for students who show special success in learning

	иностранный для продвинутого уровня (Центр международного образования МГУ).		Russian and who want to work with additional material
9	Russian Web Tutor	http://www.auburn.edu/~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 текстовая Центр 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 "О самом главном". <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

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

2nd year

№	The EE and DLT platform	Name of the e-course, authors, URL	Implementation model of the electronic course
	Moodle Zoom	2 course Russian Language Russian language as foreign https://edu.nsmu.ru/course/view.php://edu.nsmu.ru/course/view.php?id=1391	<i>mixed training</i> +EC,

3rd year

№	The EE and DLT platform	Name of the e-course, authors, URL	Implementation model of the electronic course
1	Moodle Zoom	3 course Russian Language Russian language as foreign, Полуэктова Татьяна Дмитриевна, https://edu.nsmu.ru/course/view.php?id=1137	<i>mixed training</i> +EC,

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*

№	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 1515 a 1516 1516 a 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