

Документ подписан простой электронной подписью
Информация о владельце:
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УТВЕРЖДАЮ
Проректор по УМР

Е.В. Коновалова

13 июня 2024 г., протокол УМС №5

АННОТАЦИИ
к рабочим программам дисциплин по направлению подготовки:
31.05.01 Лечебное дело
Профиль: *Лечебное дело*

Biomedical Technology

1. COURSE OBJECTIVES	
1.1	The aim of the course "Biomedical technologies" is to study the main directions of biomedical technologies, such as molecular genetic diagnostics, gene and cell therapy, transplantology, the use of biocompatible materials.
1.2	The course is based on the generalization of the studied material using the achievements of medicine, biology, genetics, immunology, chemistry and physics, laboratory research methods.

2. COURSE OVERVIEW	
Course code (in curriculum)	ФТД.В
2.1	Assumed background knowledge:
	Biochemistry
	Chemistry
	Biology
	Microbiology, Virology
	Hominal Physiology
	Pathophysiology
	Clinical Pathophysiology
2.2	Дисциплины и практики, для которых освоение данной дисциплины (модуля) необходимо как предшествующее:
	Clinical Pharmacology
	Anaesthesiology, Resuscitation, Intensive Care
	Medical Rehabilitation
	Oncology, X-Ray Therapy
	Instrumental Methods of Examination
	Functional Diagnostics
	Endovascular diagnostics (adaptive course)
	Practical Obstetrics and Gynaecology
	Clinical Surgery

3. КОМПЕТЕНЦИИ ОБУЧАЮЩЕГОСЯ, ФОРМИРУЕМЫЕ В РЕЗУЛЬТАТЕ ОСВОЕНИЯ ДИСЦИПЛИНЫ (МОДУЛЯ)	
GC-1.	The ability to abstract thinking, analysis and synthesis
GPC-9.	Able to implement the principles of quality management in professional activities
PC-8.	Capable of maintaining medical records and organizing the activities of medical staff

PC-10. Capable of participating in the introduction of new methods and techniques aimed at protecting the health of citizens

By the end of the course students must:

3.1 know:	
3.1.1	theoretical foundations of biomedical technologies and their practical use in various branches of the medical sciences (human genetics, immunology, transplantology, pharmacology, cardiology, reproductology); the evolution of biomedical technology and its foreseeable prospects; have an idea about cell technologies, stem cells, bioethical aspects.
3.2 be able to:	
3.2.1	design primers for PCR, use genetic online databases; use modern computer equipment and software for the design and analysis of the results of molecular genetic studies.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics /Class type	Term / Academic	Academic hours	Competences	Literature	Interactive
	Раздел 1. Section 1. General					
1.1	questions The subject of biomedicine as a stage in the development of ideas about living systems, the evolution of biomedical technologies, the relationship with other subjects. The evolution of biomedical technology, the main achievements /Pr/	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.2	The subject of biomedicine as a stage in the development of ideas about living systems, the evolution of biomedical technologies, the relationship with other subjects. The evolution of biomedical technology, the main achievements /Ss/	10	2	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.3	Biomedical technologies in the pharmaceutical industry (development of biological products, methods of targeted delivery) /Pr/	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.4	Biomedical technologies in the pharmaceutical industry (development of biological products, methods of targeted delivery) / Ss /	10	2	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.5	Methods of molecular analysis of the genome, proteome; genetic diagnostics; PCR, sequencing / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.6	Methods of molecular analysis of the genome, proteome; genetic diagnostics; PCR, sequencing / Ss /	10	2	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.7	Biomedical technologies in translational medicine: biomarkers, gene therapy, cell therapy, bioprinting / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.8	Biomedical technologies in translational medicine: biomarkers, gene therapy, cell therapy, bioprinting / Ss /	10	2	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.9	Use of biomedical technologies in the diagnostics and treatment of cardiovascular diseases; reproductive health / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	

1.10	Use of biomedical technologies in the diagnostics and treatment of cardiovascular diseases; reproductive health / Ss /	10	2	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.11	Use of polymeric biomaterials and electronics in biomedicine / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.12	Use of polymeric biomaterials and electronics in biomedicine / Ss /	10	2	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.13	The role of IT in biomedical technologies: bioinformatics and big data analysis / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.14	The role of IT in biomedical technologies: bioinformatics and big data analysis / Ss /	10	2	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.15	Biomedical technologies in regenerative medicine; therapeutic and reproductive cloning / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.16	Biomedical technologies in regenerative medicine; therapeutic and reproductive cloning / Ss /	10	2	GC-1 GPC-9 PC-8.	L 1.1 E1 E2 E3 E4	
1.17	Modern approaches in biobanking / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.18	Modern approaches in biobanking / Ss/	10	2	GC-1 GPC-9 PC-8.	L 1.1 E1 E2 E3 E4	
1.19	Biomedical technologies: Neurointerface Perspectives / Pr /	10	4	PCGC--101 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.20	Biomedical technologies: Neurointerface Perspectives / Ss /	10	1	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.21	Ethical aspects and legal regulation of biomedical technologies / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.22	Ethical aspects and legal regulation of biomedical technologies / Ss /	10	2	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.23	Final lesson / Pr /	10	4	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
1.24	Final lesson / Ss/	10	3	GC-1 GPC-9 PC-8.	L 1.1 E1 E2 E3 E4	
1.25	control work	10	0	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	

1.26	Credit	10	0	GC-1 GPC-9 PC-8. PC-10.	L 1.1 E1 E2 E3 E4	
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5. ОЦЕНОЧНЫЕ СРЕДСТВА

5.1. Оценочные материалы для текущего контроля и промежуточной аттестации

Submitted in a separate document

5.2. Оценочные материалы для диагностического тестирования

Submitted in a separate document

6. COURSE (MODULE) RESOURCES

6.1. Recommended Literature

6.1.1. Core

	Authors	Title	Publisher, year	Quantity
L 1.1	/ Levchuk I.P.	Life Safety in Medicine	ГЭОТАР-Медиа, 2018. Electronic resource	1

6.1.2. Supplementary

	Authors	Title	Publisher, year	Quantity

6.2. Internet resources

E1	FreeMedicalJournals
E2	HighWire
E3	Molecular & Cellular teomics Pr
E4	Medline

6.3.1 Перечень программного обеспечения

6.3.1.1	Operational system Microsoft, applied programs pack Microsoft Office
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6.3.2 Перечень информационных справочных систем

6.3.2.1	"Garant", "Consultant"
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7. МАТЕРИАЛЬНО-ТЕХНИЧЕСКОЕ ОБЕСПЕЧЕНИЕ ДИСЦИПЛИНЫ (МОДУЛЯ)

The classroom for lectures, seminars (laboratory classes), group and individual consultations, current control and interim certification is equipped with: a set of specialized furniture, marker (chalk) board, a set of portable multimedia equipment - computer, projector, projection screen, computers with Internet access and access to the electronic information and educational environment. Access to the Internet and the electronic information environment of the organization is provided

Dermatovenereology

	The aim of the course dermatovenereology is to prepare a highly qualified physician who has certain theoretical knowledge, skills and practical skills in the field of dermatovenereology, taking into account further training and professional activity in the specialty «General Practitioner».
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Б1.Б	
2.1	Assumed background:
2.1.1	Otorhinolaryngology
2.1.2	Epidemiology
2.1.3	Ophthalmology
2.1.4	Propaedeutics of Internal Diseases, Radiation Diagnostics
2.1.5	Pharmacology
2.1.6	Hygiene
2.1.7	Microbiology, virology
2.1.8	Biochemistry
2.1.9	Foreign Language (Russian)
2.1.10	Normal physiology
2.1.11	Anatomy
2.1.12	Biology
2.1.13	Latin
2.1.14	Chemistry
2.2	Post requisite courses and practice:
2.2.1	Obstetrics and gynecology
2.2.2	Hospital Therapy, Endocrinology
2.2.3	Diagnosis and treatment of diseases of internal organs in the elderly
2.2.4	Practical training, clinical (assistant doctor of an outpatient clinic)
2.2.5	Preparation for and passing the state exam
2.2.6	Practical obstetrics and gynecology

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	
	UC-1. Able to critically analyze problem situations on the basis of a systematic approach, develop a strategy of action
	GPC-9. Able to implement the principles of quality management in professional activities
	PC-5 Able to develop a treatment plan (medication, non-medication, palliative) based on the established diagnosis, to organize personalized treatment, including for pregnant women, elderly and elderly patients, as well as to evaluate the effectiveness and safety of the therapy provided.
	PC-6 Capable of assessing the possibility and effectiveness of rehabilitation or habilitation measures in a patient with loss of body functioning, labor activity
	PC-8 Capable of maintaining medical records and organizing the activities of medical staff

By the end of the course students must:
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	the specifics of the subject and the objectives of the discipline dermatovenerology;
	the role, place and relationship with other sciences in the system of biological and medical disciplines;
	the main historical stages of dermatovenerology development;
	the prospects for the development of science and new directions in the study of dermatovenerology;
	basic concepts used in dermatovenerology;
	histopathological changes of the skin and its appendages;
	the properties of the skin and its appendages;
	immunopathological states, mechanisms of their development in skin and venereal diseases;
	diseases of the dermatovenerological profile, the mechanisms and causes of their development, the differential diagnosis of nosological forms, the features of treatment;
	modern methods of diagnosis of basic human skin diseases and sexually transmitted infections;
	types and indications for the use of drugs for diseases of dermatovenerology;
	genetically engineered drugs in dermatovenerology, systemic retinoids (classification, pharmacokinetics and pharmacodynamics, features of the application);
	diagnosis and treatment of sexually transmitted infections;
	prevention and rehabilitation in dermatovenerology;
	the principles of organization of the dermatovenerological service.
	B
	use the acquired knowledge of dermatovenerology in the study of other biomedical and medical disciplines;
	interpret and apply correctly the basic concepts of dermatovenerology in the study of biomedical and medical literature and when working together with medical specialists;
	give reasons of the necessity for examination of the patient;
	interpret the results of the patient's examination evaluation;
	make differential diagnosis of skin diseases, its appendages and sexually transmitted infections;
	assess the importance of various factors in the pathogenesis and diagnosis of skin and venereal diseases of a person;
	determine the "risk group" of dermatovenerological diseases;
	give reasons of prescribing drugs for skin diseases and sexually transmitted infections.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Notes
1.1	Introduction to dermatology /lecture	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3	

1.2	Introduction to dermatology /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3	Oral quiz, test, case study
1.3	Introduction to dermatology /Selfstudy	9	1	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3	
1.4	Erythematous-squamous dermatosis (psoriasis, lichen planus, discoid lupus erythematosus, scleroderma) /lecture	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	
1.5	Erythematous-squamous dermatosis (psoriasis, lichen planus, discoid lupus erythematosus, scleroderma) /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	Oral quiz, test, case study

1.6	Pyoderma, scabies, lice /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	Oral quiz, test, case study
1.7	Mycoses /lecture	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	
1.8	Mycoses /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	Oral quiz, test, case study
1.9	Mycoses /Self-study	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	
1.10	Allergic dermatosis /lecture	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	
1.11	Allergic dermatosis /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	Oral quiz, test, case study

1.12	Neurodermatosis /lecture	9	0	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	
1.13	Neurodermatosis /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	Oral quiz, test, case study
1.14	Cystic dermatosis and Viral dermatosis /lecture	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	
1.15	Cystic dermatosis /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	Oral quiz, test, case study
1.16	Viral dermatosis /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	Oral quiz, test, case study
1.17	Cystic dermatosis and Viral dermatosis /Self-study	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.3 I 1	
1.18	Introduction to venereology /lecture	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	
1.19	Introduction to venereology /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	Oral quiz, test, case study
1.20	Primary and secondary syphilis. Tertiary and congenital syphilis /lecture	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	
1.21	Primary and secondary syphilis. Tertiary and congenital syphilis /practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	Oral quiz, test, case study

1.22	Serodiagnosis and treatment of syphilis. Dermatological aspects of HIV infection / lecture	9	2	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	
1.23	Serodiagnosis and treatment of syphilis. Dermatological aspects of HIV infection / practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	Oral quiz, test, case study
1.24	Gonorrhea and non-gonococcal urethritis / practical classes	9	4	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	Oral quiz, test, case study
1.25	Gonorrhea and non-gonococcal urethritis / Self-study	9	1	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	
1.26	Control work /Control /	9	0	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	Control work
1.27	Final exam	9	36	UC-1 GPC-9 PC-5 PC-6 PC-8	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3 I 1	Exam

Diagnostics and treatment of internal diseases in the elderly

1. COURSE OBJECTIVES	
1.1	<p>The aim of the course is to train professional medical skills of surveying elderly patients.</p> <p>The objectives are:</p> <ul style="list-style-type: none"> - To give diagnosis and conduct a differential diagnosis, - To know the tactics of supervising patients and modern principles of therapy; - To maintain medical documentation; - To provide emergency assistance, rehabilitation and clinical examination of elderly patients with basic diseases of internal organs.

2. COURSE OVERVIEW	
Course code (in curriculum)	ФТД.В.02
2.1 Assumed background:	
	Anatomy
	Pathologic anatomy

	Clinical pathologic anatomy
	Pathophysiology
	Clinical pathophysiology
	Internal Diseases Propaedeutics, X-Ray Diagnostics
	Pharmacology
	Hominal physiology
2.2	Post-requisites:
	Ambulatory therapy
	Infectious diseases
	Oncogynecology
	Hospital therapy, endocrinology

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

GCC-1: ability to abstract thinking, analysis, synthesis

GPC-6: readiness for maintaining medical documentation

PC-5: readiness for collecting and analysis of complaints of the patient, data collection of his history, results of examination, laboratory, instrumental, pathological-anatomical and other research for recognition of a state or establishment of the fact of existence or absence of a disease

PC-6: the ability to definition at the patient with basic pathological conditions, symptoms, syndromes diseases, nosological forms in accordance with the international statistical classification of diseases and problems associated with health, X revision

PC-8: the ability to identify tactics of maintaining patients with various nosological forms

PC-10: willingness to provide medical assistance for sudden acute diseases, states, exacerbation of chronic diseases, not involving a threat to the life of the patient and do not require emergency medical assistance

By the end of the course students must:

3.1	Know:
3.1.1	- The International Statistical Classification of Diseases and problems associated with health, X revision - The structure of morbidity in the elderly, senile age;
3.1.2	• Clinical manifestations and course of common diseases of internal organs in elderly, senile age;
3.1.3	• Functional changes in an organism of the aging person, the adaptive capacity of the organism when ageing;
3.1.4	• Indications for the use of modern methods of laboratory diagnosis of diseases;
3.1.5	• Features of medical examination of patients elderly, senile age;
3.1.6	- clinical recommendations for treating diseases;
3.1.7	• The International Statistical Classification of Diseases
3.1.8	• Standards of delivery of medical assistance on diseases;
3.1.9	• Features of the pharmacokinetics and pharmacodynamics of drugs in patients older, senile age.
3.1.10	- clinical recommendations for treating diseases of internal organs.
3.2	Be able to:
3.2.1	- justify the necessity of laboratory, instrumental examinations; consultations with medical specialists;
3.2.2	- analyze the results of the patient's examination, and if necessary, to justify and plan additional research;

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3.2.3	- interpret data of laboratory and instrumental researches, consultations data of patients by doctors, and data from additional patients examining;
3.2.4	- provide emergency medical assistance;
3.2.5	- provide necessary medical assistance while treating diseases common in the clinic of the internal medicine
3.2.6	- prescribe medications therapy for diseases in accordance with the indications and pharmacodynamics and pharmacokinetics of drugs;
3.2.7	- assess the efficacy and safety of medication treatment;
3.2.8	- use the necessary medical equipment;
3.2.9	- make prescription for the diseases, pathological processes and states of internal organs in the elderly.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Name of sections and topics/ type of occupation/	Term / Academic year	Academic hours	Competences	Literature	Interactive	Notes
	Section 1. Introduction to the subject						
1.1	Theoretical basics of Gerontology and Geriatrics. Clinical Pharmacology of the elderly and senile age. Nutrition and the age. / Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
1.2	Theoretical basics of Gerontology and Geriatrics. Clinical Pharmacology of the elderly and senile age. / Selfstudy	9	3	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
	Section 2. Cardiovascular diseases in the elderly.						
2.1	Hypertensive disease. Features of the disease course. Selecting the therapy for elderly patients. / Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
2.2	Hypertensive disease. Features of the disease course. Selecting the therapy for elderly patient. / Self-study	9	3	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		

2.3	Ischemic heart disease. Features of the disease course. Selecting the therapy for elderly patient. / Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
2.4	Ischemic heart disease. Features of the disease course. Selecting the therapy for elderly patient. / Self-study	9	3	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
2.5	Rhythm and conduction disturbances. Features of diagnostics. Therapy selecting./ Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
2.6	Rhythm and conduction disturbances. Features of diagnostics. Therapy selecting./ Selfstudy	9	3	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		

2.7	Features of the disease course and diagnosing acute and heart failure. Basic principles of pharmacotherapy./ Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
2.8	Features of the disease course and diagnosing acute and heart failure. Basic principles of pharmacotherapy./ Self-study	9	1	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
	Section 3. Diseases of respiratory organs in the elderly.						
3.1	Chronic obstructive lung disease in elderly./ Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		

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3.2	Chronic obstructive lung disease in elderly./ Self-study	9	2	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
3.3	Bronchial asthma in the elderly. Features of the disease course and diagnostics. Basic principles of Pharmacotherapy of bronchial asthma in the elderly. / Selfstudy	9	2	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
3.4	Features of the disease course and diagnosing pneumonia and bronchial diseases in the elderly. Basic principles of selecting antibacterial medications. / Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
3.5	Features of the disease course and diagnostics. Basic principles of Pharmacotherapy of bronchial asthma in the elderly. / Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
3.6	Features of the disease course and diagnosing pneumonia and bronchial diseases in the elderly. Basic principles of selecting antibacterial medications. / Self-study	9	1	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
	Section 4. Diseases of the urinogenital system at elderly.						

4.1	Pyelonephritis in the elderly. Basic principles of therapy of pyelonephritis in the elderly. / Selfstudy	9	1	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
4.2	Pyelonephritis in the elderly. Basic principles of therapy of pyelonephritis in the elderly. Features of the disease course and diagnosing chronic renal failure in the elderly. Basic principles of selecting medications./ Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		

4.3	Features of the disease course and diagnosing chronic renal failure in the elderly. Basic principles of selecting medications. /Self-study	9	1	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
	Section 5. Features of the course of the gastrointestinal diseases in elderly.						
5.1	Gastric ulcer and duodenal ulcers in the elderly. Clinical Pharmacology of drugs used in the treatment of the gastrointestinal tract diseases. / Practical classes	9	4	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		

5.2	Gastric ulcer and duodenal ulcers in the elderly. Clinical Pharmacology of drugs used in the treatment of the gastrointestinal tract diseases. / Self-study	9	1	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
	Section 6. Features of the course of the osteo-articular system diseases in the elderly.						
6.1	Features of the treatment course and diagnosing joints diseases in elderly. Basic principles of selecting nonsteroidal and steroidal antiinflammatory medications. / Practical classes	9	2	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		

6.2	Features of the treatment course and diagnosing joints diseases in elderly. Basic principles of selecting nonsteroidal and steroidal antiinflammatory medications. / Self-study	9	1	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
	Section 7. Features of the course of the blood diseases in elderly.						
7.1	Iron-deficient anemia in the elderly. Features of the disease course and diagnosis, basic principles of selecting therapy. / Practical classes	9	2	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		
7.2	Iron-deficient anemia in the elderly. Features of the disease course and diagnosis, basic principles of	9	2	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		

	selecting therapy. / Self-study						
6.1	Control work /Control /	9	0	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		Control work /Control /
8.1	/ Credit /	9	0	GCC-1 GPC-6 PC-5 PC- 6 PC-8 PC- 10	L 1.1 L1.2 L1.3 L 2.1 L 2.2 L 3.1 E1 E2 E3		/ Credit /

Hospital Therapy, Endocrinology

1. COURSE OBJECTIVES

1.1	The aim is to acquire scientific knowledge on the etiology, pathogenesis, diagnostics, differential diagnostics, rational pharmacotherapy, rehabilitation and prevention of major visceral diseases and the development of clinical thinking among students; to complete the educational programme; to prepare for the state final certification, develop professional competencies required within the General Practitioner's professional activity; to prepare for therapeutic and preventive work under the supervision of a General Practitioner; to prepare for further postgraduate education.
1.2	The aim of studying the 'Endocrinology' module is to master the principles and methods of differential diagnostics and treatment of major syndromes and diseases of the endocrine system, to form the necessary amount of knowledge and practical skills among the students for independent work in the institutions of hospital care, to develop the students' interdisciplinary thinking in order to form professional competencies required within the General Practitioner's professional activity.

2. COURSE OVERVIEW

Course code (in curriculum)	B1.B.36
2.1	Assumed background:
2.1.1	Internal Diseases Propaedeutics, X-Ray Diagnostics
2.1.2	Hominal Physiology
2.1.3	Biochemistry
2.1.4	Pharmacology
2.1.5	Faculty Therapy, Professional Diseases
2.1.6	Histology, Embriology, Citology
2.1.7	Clinical Pathophysiology
2.1.8	Clinical Pathologic Anatomy
2.1.9	Pathologic Anatomy
2.1.10	Pathophysiology
2.2	Post requisites:

2.2.1	Functional Diagnostics
2.2.2	Obstetrics and Gynecology
2.2.3	Hospital Surgery, Paediatric Surgery
2.2.4	Ambulatory Therapy
2.2.5	Professional Practice, Clinical Practice, General Practitioner Assistant (outpatient)
2.2.6	Clinical Pharmacology
2.2.6	Medical Rehabilitation
2.2.7	Preparation for and passing the state exam
3. COMPETENCIES UPON COMPLETION OF THE COURSE (MODULE)	
GCC-1: ability to abstract thinking, analysis, synthesis	
GPC-6: readiness to keep medical records	
PC-5: willingness to collect and analyze patient's complaints, their medical history, examination results, laboratory, instrumental, pathological and other studies in order to identify the condition or establish the presence or absence of the disease	
PC-6: the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Problems Related to Health, X revision	
PC-8: the ability to determine the tactics of managing patients with various nosological forms	
PC-10: readiness to provide medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care	

As a result of mastering the discipline, the student must

3.1	know:
3.1.1	<p>significant problems and processes; rules of keeping medical records; main pathological symptoms and clinical and laboratory syndromes in a clinical setting; clinical symptoms and pathogenesis of major diseases, their prevention, diagnostics and treatment, clinical symptoms of borderline states; outlines and principles of pharmacological and non-pharmacological therapy, physiotherapy, physical therapy and medical monitoring, indications for surgical treatment of somatic pathology; basics of rational diet therapy; modern methods of clinical and laboratory diagnostics and treatment in accordance with the standards and clinical protocols of performance in practice; principles of differential diagnosis between most common pathologies and clinically similar diseases; principles of treatment and prevention of diseases; side effects of medicines; emergency medical care in life-threatening conditions; indications for patients' hospital admission; the basic principles of treatment of various populations with different nosologies; the characteristics of anamnesis of endocrinological patients, basic and advanced methods of examination (according to ICD); fundamentals of deontology and medical ethics; etiology, pathogenesis, diagnostics of endocrine diseases (in accordance with the International Statistical Classification of Diseases), the principles of diagnostics between most common pathologies and clinically similar diseases; the scope of emergency therapeutic care in life-threatening conditions; rules of drug inventory and principles of drug provision for endocrine patients; principles of treatment of endocrine pathology; main principles of treatment of various population groups with different nosologies.</p>

3.2	be able to:
3.2.1	<p>analyze socially significant processes; keep medical records; carry out a survey, physical examination, clinical examination, interpret the results of laboratory and instrumental examination; interpret the results laboratory and instrumental methods of research; determine a diagnosis according to the International Classification of Diseases on the basis of data from the main and additional research methods; perform basic and additional research methods to clarify the diagnosis; develop a patient examination programme; determine a detailed clinical diagnosis based on the data obtained during the examination, determine the activity and the stage of the pathological process; assign treatment to the patient, taking into account knowledge of the etiology, the pathogenesis of the disease (etiological, pathogenetic treatment, basic and adjuvant therapy, symptomatic treatment); develop specific measures for the secondary prevention and rehabilitation therapy of the supervised patient; file medical records; the basic principles of treatment of various populations with different nosologies; interpret the results of laboratory and instrumental examinations; perform basic and additional methods of examination for endocrine diseases (general clinical, hormonal, instrumental and radiological) to clarify the diagnosis, to carry out diagnostic tests for differential diagnostics; interpret the results of laboratory and instrumental methods of research; determine a diagnosis according to the International Classification of Diseases on the basis of data from the main and additional research methods; perform basic and additional research methods to clarify the diagnosis; use regulations on endocrinology in medical practice; predict the need for drugs; to determine the indications for the use of hormonal and other drugs for endocrine diseases; assess the adequacy of hormone therapy.</p>

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics/Class type	Term / Academic year	Academic hours	Competences	Literature	Inter active	Notes
	Section 1. Respiratory diseases						

1.1	Emphysema. Chronic obstructive pulmonary disease (COPD). Pulmonary heart / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1. Э2 Э6 Э7 Э9	0	
	Section 2. Diseases of the cardiovascular system						
2.1	Myocarditis. Pericarditis / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 Э5 Э6 Э7 Э9	0	
2.2	Myocarditis. Pericarditis / self-study	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 3.1 Э4 Э5 Э6 Э9	0	
2.3	Cardiomyopathy: primary, secondary / self-study	9	2	GCC-1, GPC-6, PC-5	L 1.1. Э5 Э6 Э7 Э9	0	

2.4	Cardiomyopathy: primary, secondary / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ᠑5 ᠑6 ᠑7 ᠑9	0	
2.5	Heart rhythm disorders (arrhythmias) / practical classes	9	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ᠑5 ᠑6 ᠑7 ᠑9	2	
2.6	Heart rhythm disorders (arrhythmias) / self-study	9	4	PC-5, PC-8	L 1.1. L 2.1. ᠑5 ᠑6 ᠑7 ᠑9	0	
2.7	Symptomatic arterial hypertension / self-study	9	2	GCC-1, GPC-6, PC-5	L 1.1. L 2.1. ᠑5 ᠑6 ᠑7 ᠑9	0	
2.8	Myocarditis. Pericarditis / lecture	9	2	PC-5, PC-6	L 1.1. ᠑5 ᠑6 ᠑7 ᠑9	0	
2.9	Heart rhythm disorders (arrhythmias) / lecture	9	2	GCC-1, GPC-6, PC-5	L 1.1. ᠑5 ᠑6 ᠑7 ᠑9	0	
2.10	Symptomatic arterial hypertension / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 3.1 ᠑5 ᠑6 ᠑7 ᠑9	0	
2.11	Congenital heart defects in adults / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ᠑5 ᠑6 ᠑7 ᠑9	4	

2.12	Conduction abnormalities / lecture	9	2	GCC-1, PC5, PC-6	L 1.1. ᠑5 ᠑6 ᠑7 ᠑9	0	
2.13	Conduction abnormalities / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ᠑5 ᠑6 ᠑7 ᠑9	0	
	Section 3. Rheumatological diseases						
3.1	Diffuse diseases of the connective tissue. Systemic lupus erythematosus. Systemic scleroderma. Dermatomyositis / lecture	9	2	GCC-1, GPC-6, PC-5	L 1.2 L 2.1. ᠑4 ᠑6 ᠑7 ᠑9	0	
3.2	Diffuse diseases of the connective tissue. Systemic lupus erythematosus. Systemic scleroderma. Dermatomyositis / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑4 ᠑6 ᠑7 ᠑9	0	

3.3	Joint diseases. Rheumatoid arthritis. Gout. Osteoarthritis. Ankylosing Spondylitis / lecture	9	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ጧ4 ጧ6 ጧ7 ጧ9	0	
3.4	Joint diseases. Rheumatoid arthritis. Gout. Osteoarthritis. Ankylosing Spondylitis / practical classes	9	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ጧ4 ጧ6 ጧ7 ጧ9	0	
3.4	Joint diseases. Rheumatoid arthritis. Gout. Osteoarthritis. Ankylosing Spondylitis / self-study	9	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ጧ4 ጧ6 ጧ7 ጧ9	0	
3.5	Systemic vasculitis / lecture	9	2	GCC-1, GPC-6, PC-5	L 1.2. ጧ4 ጧ6 ጧ7 ጧ9	0	
3.6	Systemic vasculitis / practical classes	9	4	PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ጧ4 ጧ6 ጧ7 ጧ9	0	
3.7	Systemic vasculitis / self-study	9	4	GCC-1, GPC-6, PC-5	L 1.2 L 2.1. L 3.1. ጧ4 ጧ5 ጧ6 ጧ9	0	
	Section 4. Urinary System diseases						
4.1	Nephrotic syndrome. Amyloidosis. Chronic pyelonephritis / self-study	9	2	GCC-1, GPC-6, PC-5, PC-6	L 1.2. ጧ1 ጧ6 ጧ7 ጧ9	0	

4.2	Nephrotic syndrome. Amyloidosis. Chronic pyelonephritis / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ጧ1 ጧ6 ጧ7 ጧ9	0	
4.3	Renal failure. Chronic kidney disease (CKD). Acute kidney damage (AKI) / lecture	9	2	GCC-1, GPC-6, PC-5	L 1.2. ጧ6 ጧ7 ጧ9	0	
4.4	Renal failure. Chronic kidney disease (CKD). Acute kidney damage (AKI) / self-study	9	4	GCC-1, GPC-6, PC-5	. L 1.2 L 2.1. L 2.2. L 3.1 ጧ1 ጧ6 ጧ7 ጧ9	0	
4.5	Renal failure. Chronic kidney disease (CKD). Acute kidney damage (AKI) / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ጧ1 ጧ5 ጧ6 ጧ9	0	

	Section 5. Diseases of the gastrointestinal tract						
5.1	Inflammatory bowel disease. Ulcerative colitis. Crohn's disease / lecture	9	2	GCC-1, GPC-6, PC-6	L 1.2. ᠑6 ᠑7 ᠑9	0	
5.2	Inflammatory bowel disease. Ulcerative colitis. Crohn's disease / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑6 ᠑7 ᠑9	0	
5.3	Inflammatory bowel disease/ Ulcerative colitis. Crohn's disease / self-study	9	4	GCC-1, GPC-6, PC-5	L 1.2. ᠑6 ᠑7 ᠑9	0	
5.4	Final lesion. Writing educational history of the disease / practical classes	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.	0	Control work
	Section 6. Hematology diseases						
6.1	Anemia / practical classes	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.2	Anemia / lecture	10	4	GCC -1, GPC-6, PC-5	L 1.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.3	Hemoblastosis: acute leukemia / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.4	Hemoblastosis: chronic leukemia / lecture	10	2	GCC-1, GPC-6, PC-5	L 1.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.5	Hemoblastosis: chronic leukemia / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.6	Hemorrhagic diathesis / lecture	10	2	GCC-1, GPC-6	L 1.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.7	Hemorrhagic diathesis / self-study	10	4	PC-5, PC-6	L 1.2 L 2.1. L 2.2. ᠑3 ᠑7 ᠑9	0	
6.8	Hemorrhagic diathesis / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	2	

6.9	The concept of paraproteinemic hemoblastosis. Myeloma / lecture	10	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.10	The concept of paraproteinemic hemoblastosis. Myeloma / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.11	Lymphomas. Lymphogranulomatosis / lecture	10	2	GCC-1, GPC-6, PC-5	L 1.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.12	Lymphomas. Lymphogranulomatosis / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.13	Lymphomas. Lymphogranulomatosis /self-study	10	6	GCC-1, GPC-6, PC-	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.14	Anemia / self-study	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
	Section 7. Endocrinological diseases						
7.1	Diabetes mellitus: etiology, pathogenesis, clinic, diagnosis / lecture	10	2	GCC-1, GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.2	Diabetes mellitus: etiology, pathogenesis, clinic, diagnosis / self-study	10	6	GCC-1, GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.3	Diabetes mellitus: etiology, pathogenesis, clinic, diagnosis / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	2	
7.4	Diabetes treatment / lecture	10	2	GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.5	Diabetes treatment / practical classes	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.6	Chronic complications of diabetes / lecture	10	4	GCC-1, GPC-6, PC-5	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	

7.7	Chronic complications of diabetes / practical classes	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.8	Acute complications of diabetes / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.9	Acute complications of diabetes / lecture	10	2	GCC-1, GPC-6, PC-5	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.10	Issues of classification of thyroid diseases. Thyrotoxicosis syndrome (diffuse toxic goiter, toxic adenoma, multinodular toxic goiter) / lecture	10	2	GCC-1, GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.11	Issues of classification of thyroid diseases. Thyrotoxicosis syndrome (diffuse toxic goiter, toxic adenoma, multinodular toxic goiter) / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	2	
7.12	Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism. / lecture	10	2	GCC-1, GPC-6, PC-5	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.13	Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism. / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.14	Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism. / self-study	10	4	GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.15	Hypocorticism: Disease and Itsenko-Cushing syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment / lecture	10	2	GCC-1, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.16	Hypocorticism: Disease and Itsenko-Cushing syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment / self-study	10	4	GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	

7.17	Hypocorticotism: Disease and Itsenko-Cushing syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment / practical classes	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.18	Hypocorticotism: chronic adrenal insufficiency; acute adrenal insufficiency. Pheochromocytoma. Adrenal incidence of breakthroughs / practical classes	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	

7.19	Hypocorticotism: chronic adrenal insufficiency; acute adrenal insufficiency. Pheochromocytoma. Adrenal incidence of breakthroughs / lecture	10	2	GCC-1, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.20	Diseases of the hypothalamicpituitary system: pituitary nanism; acromegaly and gigantism, diabetes insipidus / lecture	10	2	GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.21	Diseases of the hypothalamicpituitary system: pituitary nanism; acromegaly and gigantism, diabetes insipidus / practical classes	10	3	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.22	Diseases of the hypothalamicpituitary system: pituitary nanism; acromegaly and gigantism, diabetes insipidus / self-study	10	5	GCC-1, GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.23	Control work /Control /	10	0	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3.		Control work
	Credit	10	0				
	Section 8. Pulmonology						
8.1	Differential diagnosis and treatment guidelines for broncho-obstructive syndrome / lecture	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ᠑2 ᠑6 ᠑7 ᠑9	0	

8.2	Differential diagnosis and treatment guidelines for broncho-obstructive syndrome / practical classes	11	12	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. ၵ2 ၵ6 ၵ7 ၵ9	0	
8.3	Differential diagnosis and treatment guidelines for broncho-obstructive syndrome / self-study	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ၵ2 ၵ6 ၵ7 ၵ9	0	
8.4	Differential diagnostics and treatment of pulmonary embolism / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. ၵ2 ၵ5 ၵ6 ၵ7 ၵ9	0	
8.5	Differential diagnostics and treatment of pulmonary embolism / self-study	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. ၵ2 ၵ5 ၵ6 ၵ7 ၵ9	0	
8.6	Differential diagnostics and treatment of focal lung diseases / lecture	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ၵ2 ၵ6 ၵ7 ၵ9	0	
8.7	Differential diagnostics and treatment of focal lung diseases / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. ၵ2 ၵ6 ၵ7 ၵ9	2	
8.8	Differential diagnostics and treatment of focal lung diseases / self-study	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. ၵ2 ၵ6 ၵ7 ၵ9	0	
	Section 9. Cardiology						
9.1	Differential diagnostics of heart failure / lecture	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ၵ5 ၵ6 ၵ7 ၵ9	0	
9.2	Differential diagnostics of hypertension / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2.ၵ5 ၵ6 ၵ7 ၵ9	0	
9.3	Differential diagnostics of heart failure / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2.ၵ5 ၵ6 ၵ7 ၵ9	2	

9.4	Differential diagnostics of heart failure / self-study	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. 95 96 97 99	0	
9.5	Differential diagnostics of chest pains: features of coronary and noncoronary pains / lecture	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. 95 96 97 99	0	
9.6	Differential diagnostics of chest pains: features of coronary and noncoronary pains / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. 95 96 97 99	0	

9.7	Differential diagnostics of chest pains: features of coronary and noncoronary pains. / self-study	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. 95 96 97 99	0	
9.8	Differential diagnostics of cardiac arrhythmias and conduction disorders / lecture	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. 95 96 97 99	0	
9.9	Differential diagnostics of cardiac arrhythmias and conduction disorders / practical classes	11	12	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. 95 96 97 99	0	
9.10	Differential diagnostics of cardiac arrhythmias and conduction disorders / self-study	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. 95 96 97 99	0	
9.11	Differential diagnostics of myocardial diseases: myocarditis, primary and secondary cardiomyopathy / lecture	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. 95 96 97 99	0	
9.12	Differential diagnostics of myocardial diseases: myocarditis, primary and secondary cardiomyopathy / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2. 95 96 97 99	2	
	Section 10. Nephrology						
10.1	Differential diagnosis of kidney damage syndromes / lecture	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. 91 94 95 96 97 98 99	0	
10.2	Differential diagnosis of kidney damage syndromes / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. 91 94 95 96 97 98 99	0	

10.3	Differential diagnostics and treatment of edema syndrome / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. 01 05 06 07 09	0	
10.4	Differential diagnostics and treatment of edema syndrome / self-study	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. 01 05 06 07 09	0	
10.5	Differential diagnostics and treatment of renal failure / practical classes	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. 01 06 07 09	2	
10.6	Differential diagnostics and treatment of renal failure / self-study	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. 01 06 07 09	0	

	Section 11. Related sections						
11.1	Features of the course and treatment of visceral diseases in special groups of patients (pregnant, elderly) / lecture	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. 01 02 03 04 05 06 07 08 09	0	
11.2	Features of the course and treatment of visceral diseases in special groups of patients (pregnant, elderly) / practical classes	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. 01 02 03 04 05 06 07 08	0	Control work
11.3	Features of the course and treatment of visceral diseases in special groups of patients (pregnant, elderly) / self-study	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.29 L 2.1. L 2.2. 05 06 07 09	0	
11.4	Final lesson. Writing educational history of the disease / self-study	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. 01 02 03 04 05 06 07 08 09	0	
	Section 12. Gastroenterology						
12.1	Differential diagnostics of hepatomegaly and hepatolienal syndrome. / lecture	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 06 07 09 010	0	
12.2	Differential diagnostics of hepatomegaly and hepatolienal syndrome / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. 06 07 09 010	0	

12.3	Differential diagnostics of hepatomegaly and hepatolienal syndrome / self-study	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑6 ᠑7 ᠑9 ᠑10	0	
12.4	Differential diagnostics of the syndrome of esophageal, gastric and intestinal dyspepsia / lecture	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑6 ᠑7 ᠑9 ᠑10	0	
12.5	Differential diagnostics of the syndrome of esophageal, gastric and intestinal dyspepsia / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑6 ᠑7 ᠑9 ᠑10	0	
12.6	Differential diagnostics of the syndrome of esophageal, gastric and intestinal dyspepsia / self-study	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑6 ᠑7 ᠑9 ᠑10	0	
12.7	Differential diagnostics and treatment of abdominal pain / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑6 ᠑7 ᠑9 ᠑10	0	

12.8	Differential diagnostics and treatment of abdominal pain / self-study	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑6 ᠑7 ᠑9 ᠑10	0	
	Section 13. Hematology						
13.1	Differential diagnostics of lymphadenopathy and splenomegaly / lecture	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑3 ᠑6	0	
13.2	Differential diagnostics of lymphadenopathy and splenomegaly / self-study	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑3 ᠑6	0	
13.3	Differential diagnostics and treatment of diseases manifested by hemorrhagic syndrome / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑3	0	
13.4	Differential diagnostics and treatment of diseases manifested by hemorrhagic syndrome / self-study	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3	0	
13.5	Differential diagnostics and treatment of hemoblastosis / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3	0	

13.6	Differential diagnostics and treatment of hemoblastosis / self-study	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᐅ3	0	
13.7	Diagnostics, treatment and prevention of thrombosis / lecture	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᐅ3 ᐅ5 ᐅ6 ᐅ7 ᐅ9	0	
13.8	Diagnostics, treatment and prevention of thrombosis / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᐅ3 ᐅ5 ᐅ6 ᐅ7 ᐅ9	0	
13.9	Diagnostics, treatment and prevention of thrombosis / self-study	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᐅ3 ᐅ5 ᐅ6 ᐅ7 ᐅ9	0	
	Section 14. Endocrinology						
14.1	Differential diagnostics of diseases manifested by hypothyroidism and thyrotoxicosis / lecture	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᐅ6 ᐅ7 ᐅ8 ᐅ9	0	

14.2	Differential diagnostics of diseases manifested by hypothyroidism and thyrotoxicosis / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᐅ6 ᐅ7 ᐅ8 ᐅ9	0	
14.3	Differential diagnostics of diseases manifested by hypothyroidism and thyrotoxicosis / self-study	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. L 3.1 ᐅ6 ᐅ7 ᐅ8 ᐅ9	0	
14.4	Differential diagnosis of hyperglycemia and glycosuria / lecture	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᐅ6 ᐅ7 ᐅ8 ᐅ9	0	
14.5	Differential diagnosis of hyperglycemia and glycosuria / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᐅ6 ᐅ7 ᐅ8 ᐅ9	0	
14.6	Differential diagnosis of hyperglycemia and glycosuria / self-study	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 3.1	0	
	Section 15. Rheumatology						
15.1	Differential diagnostics of joint damage / lecture	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᐅ4 ᐅ6 ᐅ7 ᐅ9	0	

15.2	Differential diagnostics of joint damage / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑4 ᠑6 ᠑7 ᠑9	2	
15.3	Differential diagnostics of joint damage / self-study	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑4 ᠑6 ᠑7 ᠑9	0	
15.4	Differential diagnostics and treatment of systemic connective tissue diseases / practical classes	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑4 ᠑6 ᠑7 ᠑9	0	
15.5	Differential diagnostics and treatment of systemic connective tissue diseases / self-study	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑4 ᠑6 ᠑7 ᠑9	0	
Section 16. Related sections							
16.1	Differential diagnostics of fever / lecture	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑6 ᠑7 ᠑9	0	
16.2	Differential diagnostics of fever / practical classes	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑6 ᠑7 ᠑9	0	
16.3	Differential diagnostics of fever / self-study	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑6 ᠑7 ᠑9	0	
16.4	Paraneoplastic syndromes in the clinic of internal diseases / self-study	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑1 ᠑3 ᠑4 ᠑6 ᠑7 ᠑8 ᠑9	0	
16.5	Writing an educational history of the disease / self-study	12	3	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑1 ᠑2 ᠑3 ᠑4 ᠑5 ᠑6 ᠑7 ᠑8	0	
16.6	Control work /Control /	12	0	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.29 .	0	Control work
16.7	Exam	12	27	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10		0	oral quiz,casestudy

Hospital surgery, pediatric surgery

1. COURSE OBJECTIVES	
1.1	The aim of mastering the discipline "Hospital Surgery" is getting knowledges on the etiology, pathogenesis, clinical signs and diagnosis of surgical diseases, including methods of treatment and prevention, further formation of clinical thinking by mastering practical skills in self-curation of patients, in maintaining medical records, compiling a diagnostic program, interpreting the results of special research methods and solving issues of surgical tactics.
1.2	The objective of the course is the development of students' personal qualities and the formation of general cultural (general scientific, social and personal, instrumental), general professional and professional competencies in accordance with the Federal Educational Standards of Higher Education.

2. COURSE OVERVIEW	
Course code (in curriculum)	Б1.Б
2.1	Assumed background knowledge:
2.1.1	Topographic anatomy and operative surgery
2.1.2	Human anatomy
2.1.3	Biology
2.1.4	Human physiology
2.1.5	General surgery, X-Ray diagnostics
2.1.6	Faculty surgery, urology
2.1.7	Clinical anatomy
2.1.8	Histology, embryology, cytology
2.1.9	Pharmacology
2.1.10	Pathological physiology
2.1.11	Pathological anatomy
2.2	Post requisites:
2.2.1	Anesthesiology, reanimatology, intensive care
2.2.2	Obstetrics and gynecology
2.2.3	Clinical surgery
2.2.4	Oncology, radiation therapy

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	
OPK-6: Maintains medical records, including in electronic form	
OPK-8:	readines for the medical using of medicines and other substances and their combinations in solving professional tasks

PK-11:	demonstrates to use medical devices provided for the procedures for medical care
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PC- 5:	willingness to collect and analyze patient complaints, medical history data, examination results, laboratory, instrumental, pathologic-anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease
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PC-6:	the ability to determine the patient's main pathological conditions, symptoms, disease s yndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Health-related Problems, X revision
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PC-7: conducts an examination of temporary disability, participation in medical and social examination, and ascertaining the biological death of a person

PC -8: demonstrates knowledge of determination the tactics of managing patients with various nosological forms

ПК-9: willingness to manage and treat patients with various nosological forms in outpatient and day hospital settings

PC-10: Demonstrates knowledge of providing medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases which are not accompanied by a threat to the patient's life and do not require emergency medical care

PC- 11: willingness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention

By mastering of the course students must:

3.1 Know:	
3.1.1	- Etiology, pathogenesis and measures of prevention the most common surgical diseases.
3.1.2	- Clinical symptoms of these diseases and their complications
3.1.3	- Modern methods of clinical, laboratory and instrumental examination of surgical patients
3.1.4	- Methods of treatment and indications for their use
3.1.5	- Deontological aspects of surgery
3.2 be able to:	
3.2.1	- To make a preliminary diagnosis is to synthesize information about the patient in order to determine the pathology and the causes of it;
3.2.2	- To make a plan of additional studies according to the prognosis of the disease, for clarifying the diagnosis and obtaining a reliable result;
3.2.3	- To formulate a clinical diagnosis;
3.2.4	- To develop a plan of therapeutic (surgical) actions, taking into account the course of the disease and its treatment;
3.2.5	- To formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, to justify pharmacotherapy in a particular patient with major pathological syndromes and urgent conditions, to determine the method of administration, regimen and dose of drugs, to evaluate the effectiveness and safety of the treatment;

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topic /class type/	Term/Ac. year	Academic hours	Competences	Literature	Notes
	Section 1.					

1.1	Introductory lecture. The goals and objectives of the subject /Lecture/	9	2	OPC-6 OPC-8 PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3 L1.6L2.1 L2.2 L2.3 L2.4 E2 E5 E10 E12 E13 E14 E15	
1.2	Acute abdomen /Lecture/	9	2	PC-5 PC-6 PC-7 PC-8 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
1.3	Gastrointestinal bleeding /Lecture/	9	2	PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E2 E6 E10 E12 E13 E15	
1.4	Acute pancreatitis. Modern approaches to the diagnosis and treatment of acute pancreatitis /Lecture/	9	2	PC-5 PC-6 PC-7 PC-9 PK-10 PC11	L1.1 L1.2 L1.3L2.1 L2.2 L2.3 E10 E12 E13 E15	
1.5	Gastric and duodenal ulcer. Surgical complications of peptic ulcer disease /Lecture/	9	2	OPK-11 PC5 PC-6 PC-7 PC-8 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
1.6	Peritonitis /Lecture/	9	2	OPK-11 PC5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 L2.3 L2.4 E10 E12 E13 E15 E19	
1.7	Errors, dangers and complications in the treatment of hernias /Lecture/	9	2	PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
1.8	Acute intestinal obstruction /Lecture/	9	2	PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3 L1.6L2.1 L2.2 E5 E10 E12 E13 E15 E17	
	Section 2.					
2.1	Acquaintance with the medical documentation in a surgical hospital. Curation of the patients /Practical classes /	9	4	OPC-6 OPC-8 PC-5 PC-6 PC-7 PC-8 PC-9 PC-10 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 L2.5 E10 E12 E13 E15	

2.2	Acquaintance with the medical documentation in a surgical hospital. Curation of the patients / Self-study /	9	4	OPC-6 OPC-8 OPK-11 PC-5 PC- 6 PC-7 PC- 8 PC-9 PC- 10 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.3	Acute appendicitis /Practical classes/	9	4	PC-5 PC- 6 PC-7 PC- 10 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E9 E10 E11 E12 E13 E15	

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2.4	Acute appendicitis /Self-study/	9	5	PC-5 PC-6 PC-7 PK-10 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E9 E10 E11 E12 E13 E15	
2.5	Complicated acute appendicitis /Practical classes/	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 E10 E12 E13 E15	
2.6	Complicated acute appendicitis / Selfstudy/	9	5	PC-11	L1.1 L1.2 L1.3 L1.4L2.1 L2.2 L2.3 L2.4 E10 E12 E13 E15	
2.7	Acute cholecystitis /Practical classes/	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 L2.4 L2.5 E10 E12 E13 E15	
2.8	Acute cholecystitis /Self-study/	9	5	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.9	Complicated acute cholecystitis /Practical classes/	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 L2.3 L2.4 E10 E12 E13 E15	
2.10	Complicated acute cholecystitis / Selfstudy /	9	5	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	

2.11	Acute pancreatitis /Practical classes/	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 JI1.3 L1.4L2.1 L2.2 E10 E12 E13 E15	
2.12	Acute pancreatitis and its complications / Self-study /	9	5	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.13	Complications of the acute pancreatitis and its complications / Practical classes /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 L2.3 E10 E12 E13 E15	
2.14	Complications of the acute pancreatitis and its complications / Self-study /	9	5	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 JI1.3 L1.4L2.1 L2.2 E10 E12 E13 E15	

2.15	Gastric and duodenal ulcer. Surgical complications of the peptic ulcer /Practical classes/	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.16	Gastric and duodenal ulcer. Surgical complications of the peptic ulcer /Self-study/	9	5	PC-5 PC-6 PC-7 PK-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.17	Peritonitis / Practical classes /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.18	Peritonitis / Self-study /	9	5	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.19	Abdominal abscesses / Practical classes /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.20	Abdominal abscesses / Self-study /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.21	Acute intestinal obstruction. Small bowel obstruction / Practical classes /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	

2.22	Acute intestinal obstruction. Small bowel obstruction /Self-study /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.23	Acute intestinal obstruction. Colonic obstruction / Practical classes /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
2.24	Acute intestinal obstruction. Colonic obstruction /Self-study /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3 L1.5 L2.1 L2.2 E10 E12 E13 E15	
2.25	Acute abdomen in children / Practical classes /	9	4	PC-5 PC-6 PC-7 PK-9 PC-11	L1.1 L1.2 L1.3 L1.5L2.1 L2.2L3.1 L3.2 E6 E10 E12 E13 E15	
2.26	Acute abdomen in children /Self-study/	9	4	PC-5 PC-6 PC-7 PK-9 PC-11	L1.1 L1.2 L1.3 L1.5L2.1 L2.2L3.1 E10 E12 E13 E15	

2.27	Acute purulent septic diseases in children / Practical classes /	9	4	PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3 L1.5L2.1 L2.2L3.1 E10 E12 E13 E15	
2.28	Acute purulent septic diseases in children / Self-study /	9	4	PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3 L1.5L2.1 L2.2L3.1 E10 E12 E13 E15	
2.29	Acute intestinal obstruction in children / Practical classes /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3 L1.5 L1.6L2.1 L2.2L3.1 E10 E12 E13 E15	
2.30	Acute intestinal obstruction in children / Self-study /	9	4	PC-5 PC-6 PC-7 PC-11	L1.1 L1.2 L1.3 L1.5L2.1 L2.2L3.1 E10 E12 E13 E15	
2.31	/Control hours/	9	0			Form of control: test
Section 3.						
3.1	Organ transplantation /Lecture/	10	2	OPC-8 PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
3.2	Diseases of the operated organs / Lecture /	10	2	OPC-8 OPC-11 PC-5 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E5 E7 E11 E12 E13 E15	
3.3	Diseases of the spleen / Lecture /	10	2	PC-5 PC-6 PC-7 PC-8 PC-11	L1.1 L1.2L2.1 L2.2 E6 E8 E9 E11 E12 E13 E15	
3.4	Breast diseases / Lecture /	10	2	PC-5 PC-7 PC-9	L1.1 L1.2L2.1 L2.2 E7 E9 E11 E12 E13 E14 E15	
3.5	Malignant tumors of the upper gastrointestinal tract. Cancer of the esophagus. Stomach cancer. Lesson 1 / Lecture /	10	2	OPC-8 OPC-11 PC-6 PC-8 PC-10	L1.1 L1.2L2.1 L2.2 L2.3 E1 E4 E8 E12 E13 E15	
3.6	Diseases of the rectum / Lecture /	10	2	PC-5 PC-6 PC-7	L1.1 L1.2L2.1 L2.2 E2 E7 E12 E13 E15 E19	

3.7	Malignant tumors of the upper gastrointestinal tract. Cancer of the esophagus. Stomach cancer. Lesson 2 / Lecture /	10	2	PC-5 PC-7 PC-8	L1.1 L1.2L2.1 L2.2 L2.3 E4 E12 E13 E15	
3.8	Benign lung tumors. Lung cancer. Diseases of the mediastinum. (tumors, cysts) /Lecture/	10	2	PC-7 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E3 E9 E12 E13 E15 E16	
Section 4.						
4.1	Curation of patients. Medical history. Maintaining medical records. / Practical classes /	10	4	OPC-8 OPC -11 PC-5 PC-6 PC-7 PC-8 PC-9 PC-11	L1.1 L1.2 L1.3 L1.6L2.1 L2.2L3.1 E10 E12 E13 E15	
4.2	Curation of patients. Medical history. Maintaining medical records. /Self-study/	10	2	OPC-8 PC- 5 PC-6 PC- 7 PC-8 PC- 9 PC-11	L1.1 L1.2 L1.3 L1.6JL2.1 L2.2 E10 E12 E13 E15	
4.3	Abdominal hernias. Pinched hernias of the anterior abdominal wall / Practical classes /	10	4	OPC-8 OPC -11 PC-6 PC-8 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.4	Abdominal hernias. Pinched hernias of the anterior abdominal wall. /Self-study/	10	2	OPC-8 OPC -11 PC-6 PC-8 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.5	Diaphragmatic hernias./ Practical classes /	10	4	OPC-8 ОПС -11 PC-6 PC-7 PC-8 PC-10 PC- 11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.6	Diaphragmatic hernias. /Self-study/	10	2	OPC-8 OPC -11 PC-6 PC-7 PC-8 PC-10 PC- 11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.7	Vascular diseases of the intestine. Acute thrombosis and embolism of mesenteric vessels. Lesson 1 / Practical classes /	10	4	OPC-8 OPC -11 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.8	Vascular diseases of the intestine. Acute thrombosis and embolism of mesenteric vessels. Lesson 2 / Practical classes /	10	4	OPC-8 OPC -11 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.9	Vascular diseases of the intestine. Acute thrombosis and embolism of mesenteric vessels. Lesson 1 /Self-study/	10	2	OPC-8 OPC -11 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.10	Vascular diseases of the intestine. Acute thrombosis and embolism of mesenteric vessels. Lesson 2 /Self-study/	10	2	OPC-8 OPC -11 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	

4.11	Portal hypertension syndrome / Practical classes /	10	4	OPC-8 OPC-11 PC-5 PC-6 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.12	Portal hypertension syndrome. /Self-study/	10	2	OPC-8 OPC-11 PC-5 PC-6 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	

4.13	Surgical aspects of the treatment of parasitic diseases: opisthorchiasis, echinococcosis, alveococcosis / Practical classes /	10	4	PC-5 PC-6 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.14	Surgical aspects of the treatment of parasitic diseases: opisthorchiasis, echinococcosis, alveococcosis /Self-study/	10	2	PC-5 PC-6 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.15	Chest trauma / Practical classes /	10	4	PC-7 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.16	Chest trauma / Self-study /	10	4	PC-7 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.17	Abdominal trauma /Practical classes/	10	4	PC-7 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.18	Abdominal trauma / Self-study /	10	2	PC-7 PC-8 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.19	Bleeding from the lower gastrointestinal tract /Practical classes/	10	4	OPC-8 OPC-11 PC-8	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.20	Bleeding from the lower gastrointestinal tract / Self-study /	10	2	OPC-8 OPC-11 PC-8	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.21	Organization of outpatient care. Outpatient surgery centers. The office of the surgeon's doctor. / Practical classes /	10	4	OPC-8 OPC-11 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.22	Organization of outpatient care. Outpatient surgery centers. The office of the surgeon's doctor. / Self-study /	10	2	OPC-8 OPC-11 PC-8	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.23	Medical documentation. Rules for the registration of sick leave. Medical insurance issues. / Practical classes /	10	4	PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.24	Medical documentation. Rules for the registration of sick leave. Medical insurance issues. / Self-study /	10	2	PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.25	Diagnosis and treatment of surgical diseases in outpatient clinics. / Practical classes /	10	4	OPC-8 OPC-11 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	

4.26	Diagnosis and treatment of surgical diseases in outpatient clinics. / Self-study /	10	2	O OPC-8 OPC-11 PC-9	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.27	Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the fingers of the hand. Benign tumors of the skin and subcutaneous tissues. / Selfstudy /	10	2	OPC-8 OPC-11 PC-6 PC-9 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	

4.28	Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the fingers of the hand. Benign tumors of the skin and subcutaneous tissues. / Practical classes /	10	4	OPC-8 OPC-11 PC-6 PC-7 PC-9 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.29	Mammology. Surgical treatment of benign breast diseases. / Practical classes /	10	4	OPC-11 PC-6 PC-9 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.30	Mammology. Surgical treatment of benign breast diseases. / Self-study /	10	2	OPC-11 PC-6 PC-8 PC-9 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
4.31	/Control hours/	10	0			Form of control: test
4.32	/ term-credit with an assessment /	10	0			Form of control: test
	Section 5.					
5.1	High-tech surgery /Lecture/	11	2	OPC-8 PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
5.2	Diseases of the colon / Lecture/	11	2	OPC-8 OPC-11 PC-6 PC-7 PC-8 PC-9 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 L2.4 E2 E4 E8 E9 E12 E13 E15	
5.3	Diseases of the pancreas / Lecture/	11	2	OPC-8 OPC-11 PC-6 PC-7 PC-8 PC-9 PC-10 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 L2.3 L2.4 E9 E10 E11 E12 E13 E14 E15	
5.4	Surgery of the liver's tumors / Lecture/	11	2	OPC-8 PC-6 PC-7 PC-8 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
5.5	Modern principles of surgical infection treatment / Lecture/	11	2	PC-5 PC-7 PC-9 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
5.6	Gastrointestinal fistulas / Lecture/	11	2	OPC-8 OPC-11 PC-6 PC-7 PC-9 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
5.7	Acute and chronic mediastinitis / Lecture/	11	2	PC-5 PC-7	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
5.8	Endocrine surgery. Diseases of the thyroid glands and adrenal glands / Lecture/	11	2	OPC-11 PC-5 PC-6 PC-10	L1.1 L1.2L2.1 J12.2J13.2 Э12 Э13 Э15	
	Раздел 6.					

6.1	Curation of the patiens. / Practical classes /	11	7	OPC-6 OPC-11 PC-7 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.2	Curation of the patiens. / Self-study /	11	4	OPC-8 OPC-11 PC-7 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.3	Chronic pancreatitis. / Practical classes /	11	6	OPC-11 PC-5 PC-6 PC-7 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
6.4	Chronic pancreatitis. / Self-study /	11	4	OPC-8 OPC-11 PC-5 PC-6 PC-7 PC-8 PC-9 PC-11	L1.1 L1.2 L1.3L2.1 L2.2 E10 E12 E13 E15	
6.5	Diseases of the esophagus. Achalasia of the cardia. Cardiospasm. Cicatricial strictures of the esophagus. Diverticula of the esophagus. Gastroesophageal reflux disease. / Practical classes /	11	6	OPC-8 OPC-11 PC-6 PC-8	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.6	Diseases of the esophagus. Achalasia of the cardia. Cardiospasm. Cicatricial strictures of the esophagus. Diverticula of the esophagus. Gastroesophageal reflux disease. / Self-study /	11	4	OPC-6 OPC-8 PC-5	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.7	Nonspecific suppurative diseases of the lungs and pleura. / Practical classes /	11	6	OPC-11 PC-6 PC-8 PC-10	L1.1 L1.2L2.1 L2.2 E12	
6.8	Nonspecific suppurative diseases of the lungs and pleura. / Self-study /	11	4	OPC-8 OPC-11 PC-5 PC-10	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.9	Acute and chronic mediastinitis /Practical classes/	11	6	OPC-8 PC-5 PC-6	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.10	Acute and chronic mediastinitis / Selfstudy /	11	4	OPC-8 PC-5 PC-6	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.11	Endocrine surgery /Practical classes/	11	6	PC-6 PC-7 PC-8 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.12	Endocrine surgery / Self-study /	11	4	PC-6 PC-7 PC-8 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.13	Colon surgery /Practical classes/	11	7	OPC-8 PC-5	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.14	Colon surgery / Self-study /	11	4	OPC-8 PC-8 PC-9 PC-10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	

6.15	Gastrointestinal fistulas /Practical classes/	11	6	OPC-8 PC- 8 PC-9 PC- 10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.16	Gastrointestinal fistulas / Self-study /	11	4	OPC-8 PC- 8 PC-9 PC- 10 PC-11	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.17	Bariatric surgery /Practical classes/	11	6	OPC-8 PC- 6	L1.1 L1.2L2.1 L2.2 E12 E13 E15	

6.18	Bariatric surgery / Self-study /	11	4	OPC-8 PC- 6	L1.1 L1.2L2.1 L2.2 E12 E13 E15	
6.19	/Control hours/	11	0			Form of control: test
	Section 7. Exam					
7.1	Exam / term-exam /	11	36	OPC-6 OPC-8 OPC-11 PC- 8 PC-10	L1.1 L1.2L2.1 L2.2 E10 E12 E13 E15	Form of control - Oral quiz, case-study, test, practical skill.

Infectious Diseases

1. COURSE OBJECTIVES	
1.1	The aim of Infectious diseases course is the development of students' theoretical knowledge and the formation of skills to be further applied for: early diagnosis of infectious diseases in outpatient settings and in the hospital; a complex of therapeutic and preventive measures in the pre - hospital and hospital stages; diagnosis of emergency conditions and the provision of medical care to infectious patients in the pre-hospital and hospital stages.
2. COURSE OVERVIEW	
Course code (in	Б1.Б.37
2.1	<p>Assumed background:</p> <ul style="list-style-type: none"> Chemistry Biochemistry Biology Normal physiology Microbiology, virology Adaptive and age-related physiology Foreign language Histology, embryology, cytology Psychology and pedagogy Philosophy Life safety History of medicine Latin language physical Culture and sport Image in the profession Medical informatics Russian language and culture of speech Physics mathematics Otorhinolaryngology Pathological syndromes in clinical medicine Team sports general physical preparation Individual sports Intellectual sports Physiological basis of human adaptation in the North Hygiene Pathological anatomy Pharmacology Dentistry Human genetics
2.2	Post requisites:

	Emergency Medicine Epidemiology Phthisiology Clinical pharmacology Medical rehabilitation Dermatovenereology Anesthesiology, resuscitation, intensive care Forensic Medicine Outpatient therapy
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3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)
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UC-1. Able to critically analyze problem situations on the basis of a systematic approach, develop a strategy of action

GPC-6. Able to organize patient care, provide primary medical and sanitary care, ensure the organization of work and professional decision-making in emergency conditions at the pre-hospital stage, in emergencies, epidemics and mass casualty areas.

PC-5 Able to develop a treatment plan (medication, non-medication, palliative) based on the established diagnosis, to organize personalized treatment, including for pregnant women, elderly and elderly patients, as well as to evaluate the effectiveness and safety of the therapy provided
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PC-6 Capable of assessing the possibility and effectiveness of rehabilitation or habilitation measures in a patient with loss of body functioning, labor activity

PC-8 Capable of maintaining medical records and organizing the activities of medical staff
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By the end of the course students must:
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3.1	know:
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- specific features of the subject and objectives of Infectious Diseases course;
- the role, place and interrelations with other sciences in the system of biological and medical disciplines;
- the main historical stages of the development of Infectious Diseases;
- prospects of development and new directions in the study of infectious diseases; - basic concepts of the discipline.
- the necessary list of medical documentation
- general issues of medical care organization for infectious patients (adults and children);
- modern classification, etiology, epidemiology of infectious diseases;
- mechanisms of immunity and the state of the immune system in various infectious diseases;
- pathoanatomical changes in organs and tissues in infectious diseases;
- clinical symptomatology of infectious diseases, complications, outcomes
- clinical symptomatology of infectious diseases, complications, outcomes;
- modern classification, etiology, epidemiology of infectious diseases, principles of epidemiological analysis and anti-epidemic measures in the focus of infection.
- modern methods of treatment for infectious diseases (specific and pathogenetic therapy, basics of rational nutrition and diet therapy for infectious diseases);
- organization of follow-up for survivors;
- rehabilitation treatment after infectious diseases, indications and contraindications to spa treatment.

3.2 | **be able to:**

- to apply abstract thinking, analysis and synthesis in various types of professional and social activities.
- to draw up necessary medical documentation.
- to conduct a comprehensive clinical examination of the patient and to diagnose an infectious disease, the severity of the condition, emergency measures, the necessary additional examination (consultations of other specialists, laboratory and instrumental diagnostics);
- to determine the tactics of management of the patient, indications for hospitalization and isolation;
- to assign treatment of infectious patients, taking into account the etiology, severity of the disease and related pathological conditions.
- to conduct a comprehensive clinical examination of the patient and to diagnose an infectious disease, the severity of the condition, emergency measures, the necessary additional examination (consultations of other specialists, laboratory and instrumental diagnostics);

to determine the tactics for the patient management, indications for hospitalization and isolation; to assign treatment of infectious patients, taking into account the etiology, severity of the disease and related pathological conditions;

- to perform differential diagnosis with the most common diseases
- to assign treatment of infectious patients, taking into account the etiology, severity of the disease and related pathological conditions;
- to determine the tactics for the patient management (to provide a full range of emergency medical care, or to start treatment and invite relevant specialists for consultation).

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Class Code	Class Code	Class Code	Class Code	Class Code	Class Code
	Section 1. General questions. Diagnosis of infectious diseases.					
1.1	Introductory lesson. Acquaintance with the clinic of the infectious diseases station (structure and mode of operation). Classification of infectious diseases. /pr/	9	4	UC-1 GPC- 6 PC-5 PC- 6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9, E10	
	Section 2. Acute infections. Intestinal infections.					
2.1	Typhoid fever. Paratyphs A and B. /lecture/	9	2	UC-1 GPC- 6 PC-5 PC- 6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9, E10	
2.2	Intestinal infections. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis and treatment of typhoid and paratyphoid fever. /pr/	9	4	UC-1 GPC- 6 PC-5 PC- 6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,	
2.3	Intestinal infections. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis and treatment of typhoid and paratyphoid fever /Selfstudy/	9	4	UC-1 GPC- 6 PC-5 PC- 6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9,	
2.4	Salmonellosis /lecture/	9	2	UC-1 GPC- 6 PC-5 PC- 6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
2.5	Intestinal infections. Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of salmonellosis. /pr/	9	4	UC-1 GPC- 6 PC-5 PC- 6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,	
2.6	Salmonellosis. /Self-study/	9	4	UC-1 GPC- 6 PC-5 PC- 6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
2.7	Acute and chronic dysentery. /lecture/	9	2	UC-1 GPC- 6 PC-5 PC- 6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	

2.8	Intestinal infections. Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of acute and chronic dysentery. /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9,
2.9	Cholera. /lecture/	9	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
2.10	Intestinal infections. Etiology, epidemiology, pathogenesis, clinic, diagnosis and treatment of cholera. Features of the course of cholera El Tor. Hypovolemic shock. /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9,
2.11	Cholera. /Self-study/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
2.12	Intestinal infections. Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of foodborne toxoinfections. /pr/	9	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9,
2.13	Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of botulism. /pr/	9	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
2.14	Intestinal infections. Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of escherichiosis. /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,
2.15	Pseudotuberculosis, yersiniosis /lecture/	9	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
2.16	Intestinal infections. Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of intestinal yersiniosis and pseudotuberculosis. /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9,
2.17	Pseudotuberculosis, yersiniosis /Self-study/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
2.18	Enterovirus infections. /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
2.19	Opisthorchiasis /lecture/	9	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
2.20	Helminthiasis. Toxocarosis. Diphylobothriosis. Teniarinchosis, teniosis. Hymenolipodosis. Echinococcosis. Alveococcosis. Opisthorchiasis. Schistosomiasis. Ascariasis. Enterobiosis. Trichocephalosis. Hookworm disease. strongyloidosis. Trichinosis. Dirofilariasis. /pr/	9	8	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9, E10
	Section 3. Airborne infections.				
3.1	Influenza and acute respiratory viral infections /lecture/	9	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
3.2	Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of influenza and acute respiratory viral infections /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,

3.3	Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of influenza and acute respiratory viral infections /Self-study/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,
3.4	Etiology, epidemiology, pathogenesis, classification, clinic, diagnosis and treatment of diphtheria and angina. /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
3.5	Meningococcal infection /lecture/	9	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
3.6	Etiology, epidemiology, pathogenesis, clinic, diagnosis and treatment of meningococcal infection. /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
3.7	Differential diagnosis of diseases with angina syndrome /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
3.8	Meningococcal infection /Self-study/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
3.9	Herpesvirus infections. Etiology, epidemiology, pathogenesis, clinic, diagnosis and treatment of herpes simplex, chickenpox, herpes zoster, infectious mononucleosis, cytomegalovirus infection. /pr/	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9,
	Section 4. Blood infections. Infections with parenteral transmission. Viral hepatitis.				E10
4.1	HIV infection. /lecture/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
4.2	Prevention of hemocontact infections in medical workers /lecture/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
4.3	HIV infection. Etiology, pathogenesis, epidemiology, risk groups. The algorithm of the doctor's actions in case of an emergency. HIV infection. Classification, clinical picture, diagnostic criteria for diagnosis, treatment: indications for the appointment of ART, basic groups and drug regimens. /pr/	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9, E10
4.4	HIV infection. /Self-study/	10	6	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
4.5	Viral hepatitis. /lecture/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
4.6	Viral hepatitis A and E, etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment /pr/	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
4.7	Acute and chronic forms of liver failure /lecture/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
4.8	Viral hepatitis. /Self-study/	10	6	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,
4.9	Viral hepatitis B and C and D, etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment. The outcomes of viral hepatitis. /pr/	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,

4.10	Differential diagnosis of diseases accompanied by jaundice syndrome /pr/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
4.11	Hemorrhagic fevers /lecture/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
4.12	Hemorrhagic fevers. Crimean and Omsk fevers. Etiology, epidemiology, pathogenesis, clinic, diagnosis, treatment, preventive measures. /pr/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,	
4.13	Hemorrhagic fevers. Hemorrhagic fever with renal syndrome. Etiology, epidemiology, pathogenesis, clinic, diagnosis, treatment, preventive measures. /pr/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9,	
4.14	Hemorrhagic fevers. Ebola, Marburg, Lassa fever. Etiology, epidemiology, pathogenesis, clinic, diagnosis, treatment, preventive measures. /pr/	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,	
4.15	Hemorrhagic fevers as particularly dangerous infections. The tactics of a doctor in an emergency. /Self-study/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
4.16	Typhus, rickettsiosis. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment /pr/	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
4.17	Typhus, rickettsiosis. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment /Self-study/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
4.18	Malaria. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment /pr/	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
4.19	Malaria. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment /Self-study/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
	Section 5. Other infectious diseases					
5.1	Tularemia. The plague. Brucellosis /lecture/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.2	Etiology, epidemiology, pathogenesis, classification, diagnosis and treatment of tularemia, plague, brucellosis. /pr/	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.3	Ornithosis, chlamydia. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment /pr/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.4	Etiology, epidemiology, pathogenesis, classification, diagnosis and treatment of anthrax /pr/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.5	Legionellosis, mycoplasma infection. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment. /pr/	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	

5.6	Anthrax. Anti-epidemic measures. The threat of bioterrorism / Self-study /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.7	Tetanus. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment / pr /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.8	Tick-borne encephalitis / lecture /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.9	Leptospirosis. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment / pr /	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	

5.10	Leptospirosis. Etiology, epidemiology, pathogenesis, clinical picture, diagnosis, treatment / Self-study /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.11	Toxoplasmosis. Etiology, epidemiology, pathogenesis, clinical picture, features of the course of toxoplasmosis during pregnancy - effect on the fetus, diagnosis, treatment. / pr /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6, E7, E8, E9,	
5.12	TORCH infections in immunodeficiency conditions, in older people / Self-study /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.13	Lyme disease. Etiology, epidemiology, pathogenesis, clinic, diagnosis, treatment, preventive measures. / pr /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.14	Lyme Disease / lecture /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.15	Lyme disease. Etiology, epidemiology, pathogenesis, clinic, diagnosis, treatment, preventive measures. / Self-study /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.16	Erysipelas. Etiology, epidemiology, clinical classification, diagnosis, differential diagnosis of erysipelas. Treatment and prevention. / pr /	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,	
5.17	Tick-borne encephalitis. Etiology, epidemiology, pathogenesis, clinic, diagnosis, treatment, preventive measures. / pr /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,	
5.18	Tick-borne encephalitis. Etiology, epidemiology, pathogenesis, clinic, diagnosis, treatment, preventive measures. / Self-study /	10	2	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3, E4, E5, E6,	
5.19	Urgent conditions in infectious diseases / pr /	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.20	Differential diagnosis of infectious diseases / pr /	10	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	
5.21	Vaccination of infectious diseases according to epidemiological indications / Self-study /	9	4	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	

	Section 6. Exam					
6.1	Exam	10	36	UC-1 GPC-6 PC-5 PC-6 PC-8	L1.1, L2.1, L3.1 E1, E2, E3,	

Obstetrics and gynecology

1. COURSE OBJECTIVES

1.1	Obstetrics: The main goal of mastering the discipline is the student's clinical training: the formation of knowledge about the etiology, pathogenesis and clinic of obstetric pathologies, clinical thinking in the diagnosis of obstetric and gynecological pathology based on symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Problems Related to Health , X revision, differential diagnosis of diseases, determination of therapeutic tactics for managing patients with various nosological forms, mastering the practical skills necessary for conducting a physiological pregnancy, receiving childbirth.
1.2	Gynecology: The main goal of mastering the discipline is the clinical preparation of the student: the skills of maintaining medical records, clinical thinking in the diagnosis of gynecological pathology based on symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Problems Related to Health, X revision, differential diagnosis of diseases, determination of the therapeutic tactics of managing patients with various nosological forms, mastering the practical skills necessary for the management of gynecological patients.

2. COURSE OVERVIEW

Course code (in curriculum)	B1.B
2.1 Assumed background knowledge:	
2.1.1	Chemistry
2.1.2	Latin
2.1.3	Biology
2.1.4	Philosophy
2.1.5	Histology, Embryology, Cytology
2.1.6	Bioethics
2.1.7	Anatomy
2.1.8	Hominal Physiology
2.1.9	Biochemistry
2.1.10	Microbiology, Virology
2.1.11	Immunology
2.1.12	Pharmacology
2.1.13	Pathologic Anatomy
2.1.14	Clinical Pathologic Anatomy
2.1.15	General Surgery, X-ray Diagnostics
2.1.16	Internal Diseases Propaedeutics, X-Ray Diagnostics
2.1.17	Public health and health care, Economy of Public Health
2.2 Post requisites:	
2.2.1	Pediatric gynecology
2.2.2	Perinatology
2.2.3	Industrial practice of obstetric and gynecological profile
2.2.4	Obstetrics

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

OC-1: ability for abstract thinking, analysis, synthesis

OPC-6: readiness to maintain medical records

PC-6: the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision

PC-8: ability to determine tactics for managing patients with various nosological forms

PC-12: readiness to manage physiological pregnancy, deliver birth

By the end of the course students must:

3.1 Know	
3.1.1	-Interrelation of functional systems of an organism and levels of their regulation.
3.1.2	- Organization and carrying out medical examination of women, analysis of its efficiency.
3.1.3	- General principles of statistical methods of processing of medical documentation.
3.1.4	- The standard documentation accepted in health care of the Russian Federation (laws of the Russian Federation, technical regulations, international and national standards, orders, recommendations, terminology, operating international classifications) and also documentation for assessment of quality and overall performance of the medical organizations;
3.1.5	- Clinical symptomatology and pathogenesis of the main processes of the complications of pregnancy, in labor and the postnatal period, their prevention, diagnostics and treatment, clinical symptomatology of borderline Case-studys of pregnant women, women in labor and women in childbirth.
3.1.6	- Bases of conducting pregnancy, childbirth and the postnatal period, the principles of medicamentous and non-drug therapy, physical therapy, physiotherapy exercises and medical control, the indication to an operational childbirth;
3.1.7	- Bases of rational nutrition and a diet therapy during pregnancy, in the postnatal period and in the lactation period;
3.1.8	- Modern methods of clinical and laboratory diagnostics and treatment in compliance with standards and clinical protocols in obstetric practice;
3.1.9	- The principles of medication therapy and non-drug therapy, physical therapy, therapeutic physical training and medical control, the indications to surgical treatment;
3.1.10	- The principles of postoperative treatment of patients, prevention of postoperative complications, recovery treatment, physical therapy, therapeutic physical training and medical control, basis of rational diet therapy in the postoperative period;
3.1.11	- Clinical symptomatology and pathogenesis of the main processes of gynecologic pathology of women during various age periods, their prevention, diagnostics and treatment;
3.1.12	- The principles of drug and non-drug therapy, physical therapy, therapeutic physical training and medical control, the indications urgical treatment;
3.1.13	- Modern methods of clinical and laboratory diagnostics and treatment in gynecologic practice of Case-studys which do not demand surgical treatment, in compliance with standards and clinical protocols;
3.1.14	- Principles of choice of type and volume of surgical help;
3.1.15	- The principles of postoperative treatment of patients, prevention of postoperative complications, recovery treatment, physical therapy, therapeutic physical training and medical control, basis of a rational diet in the postoperative period;
3.1.16	- Principles of therapeutic and surgical treatment of pathological pregnancies, childbirth and postnatal period;
3.1.17	- principles of rendering emergency aid (obstetric bleedings, eclampsy);
3.1.18	- Indications to episiotomy;
3.1.19	- Indications to planned and emergency Cesarean section;
3.1.20	- Treatment of women in childbirth after Cesarean section.
3.2 Be able to:	
3.2.1	- To estimate efficiency of medical examination;

3.2.2	- To analyze key performance indicators of medical and preventive treatment institution;
3.2.3	- To conduct scientific research on the profession;
3.2.4	- Keep medical documentation of various types in the medical organizations;
3.2.5	- Prescribe medicines against certain diseases and pathological processes of the pregnant and gynecologic patients according to the features of their pharmacodynamics and pharmacokinetics;
3.2.6	- To interpret results of laboratory and tool methods of research;
3.2.7	- To make the diagnosis according to the International classification of diseases on the basis of main and additional methods of a research;
3.2.8	- To carry out the main and additional methods of a research in order to specify the diagnosis;
3.2.9	- To carry out episiotomy;
3.2.10	- To process and remove seams of a crotch and anterior abdominal wall,
3.2.11	- Prevent and treat complications of gynecological diseases;
3.2.12	- To collect tool kit for carrying out diagnostic curettement and medical abortion;
3.2.13	- To reveal the most frequent complications of pregnancy, childbirth and the postnatal period;
3.2.14	- To render the main diagnostic and medical manipulations to pregnant women, women in labor and women in childbirth.
3.2.15	- To identify the most frequent complications of gynecological diseases.

4. STRUCTURE AND CONTENTS

Class Code	Part and topic /class type/	Term / Ac. year	Academic hours	Competences	Literature	Interactive
	Section. Physiological obstetrics					
1.1	Physiology of a reproductive system of the woman /Lec/	7	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.2	Modern ideas of formation of the "mother- placenta-foetus" system. /Lec/	7	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.3	Diagnostic methods in obstetrics /Lec/	7	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.4	Maintaining a normal pregnancy /Lec/	7	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.5	Maintenance of normal childbirth and the postpartum period /Lec/	7	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.6	Introduction. Modern directions in obstetrics /Lec/	7	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.7	Family planning. Medical genetic counseling /Lec/	7	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.8	Adaptation changes of physiological pregnancy. /Lec/	7	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.9	The organization of work of obstetric gynecological service in the Russian Federation /Pr/	7	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.10	Methods for assessing the hormonal function of the feto-placental system /Pr/	7	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

1.11	Methods for assessing the hormonal function of the ovaries. /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.12	Methods of examination of pregnant women /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.13	Methods for assessing the hormonal function of the feto-placental system /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.14	Anatomy of the female genital organs. The female pelvis from an obstetric point of view /Pr/	7	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.15	Anatomy of the female genital organs. The female pelvis from an obstetric point of view /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.16	Adaptive changes in a woman's body during physiological pregnancy/ Supervision of pregnant women /Pr/	7	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.17	Adaptive changes in a woman's body during physiological pregnancy. /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.18	Methods of examination of pregnant women. Methods for assessing the condition of the fetus. Fetus as an object of childbirth /Pr/	7	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.19	Methods of examination of pregnant women. Methods for assessing the condition of the fetus. Fetus as an object of childbirth /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.20	Biomechanism of labor in the anterior and posterior types of occipital presentation. Physiology of normal childbirth, clinical picture and management /Pr/	7	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.21	Biomechanism of labor in the anterior and posterior types of occipital presentation. Physiology of normal childbirth, clinical picture and management /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.22	Clinical picture and management of the first stage of normal labor /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.23	Clinical picture and management of the II stage of normal labor /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.24	Clinical picture and management of the III stage of normal labor /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.25	Physiology of normal postpartum period. The neonatal period. The course and management of the postpartum period /Pr/	7	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.26	Physiology of normal postpartum period. The neonatal period. The course and management of the postpartum period /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.27	The course and management of the postpartum period /Ss/	7	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

1.28	/Test lesson /Pr/	7	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.29	Control work /Control	7	0	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
	Section 2. Pathological obstetrics					
2.1	Placental insufficiency /Lec/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.2	Extragenital diseases and pregnancy. /Lec/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.3	Intrauterine infection /Lec/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.4	Abnormalities of labor /Lec/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.5	Caesarean section in modern obstetrics /Lec/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.6	The modern view on the problem of miscarriage /Lec/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.7	Prolonged pregnancy. /Lec/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.8	Pregnancy and childbirth with breech presentation /Lec/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.9	Pathology of the feto-placental system. Fetal growth restriction. Intrauterine Hypoxia. /Pr/	8	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.10	Pathology of the fetoplacental system. /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.11	Prolonged pregnancy. /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.12	Operative obstetrics. Cesarean section /Pr/	8	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.13	Operative obstetrics /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.14	Operative obstetrics, practical skills /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.15	Endocrine diseases and pregnancy. Diseases of the Urinary system and pregnancy. /Pr/	8	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.16	Endocrine diseases and pregnancy. Diseases of the Urinary system and pregnancy. /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.17	Cardiovascular diseases and pregnancy. Anemia in pregnancy. /Pr/	8	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

2.18	Extragenital diseases /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.19	Breech presentation of the fetus. /Pr/	8	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.20	Breech presentation of the fetus. /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

2.21	Miscarriage of pregnancy. /Pr/	8	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.22	Miscarriage of pregnancy /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.23	Recurrent miscarriage /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.24	Violation of the contractile activity of the uterus. /Pr/	8	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.25	Violation of the contractile activity of the uterus /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.26	Intrauterine infection /Pr/	8	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.27	Intrauterine infection /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.28	Chorioamnionitis /Ss/	8	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.28.1	Control work /Control /	8	0	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.28.2	Credit	8	0	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.29	Multifetal pregnancy /Lec/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.30	Rh immunization. Hemolytic disease of the fetus /Lec/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.31	Preeclampsia. Pathogenesis. Clinic Preeclampsia. Intensive care /Lec/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.32	The Fetal as a patient. Congenital malformations of the fetus /Lec/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.33	Obstructed labor. Shoulders dystocia /Lec/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

2.34	Pathology of the fetus and newborn. Birth traumatism. Fetal distress /Lec/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.35	Septic diseases of the postpartum period /Lec/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.36	Breastfeeding. Postpartum contraception /Lec/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.37	Analysis of the medical history of labor scheme. Supervision of pregnant women. Patients curation. /Pr/	9	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.38	Patients curation. /Ss/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.39	Rh(±) and other blood group alloimmunizations /Pr/	9	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.40	Rh(±) and other blood group alloimmunizations /Ss/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.41	Multifetal pregnancy /Pr/	9	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

2.42	Multifetal pregnancy /Ss/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.43	Congenital malformations of the fetus /Pr/	9	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.44	Congenital malformations of the fetus /Ss/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.45	Preeclampsia. Management of pregnancy and childbirth with severe forms of preeclampsia. /Pr/	9	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.46	Management of pregnancy with severe forms of preeclampsia. /Ss/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.47	Preeclampsia. Management of childbirth with severe forms of preeclampsia. /Ss/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.48	Operative vaginal delivery: vacuum device or forceps /Pr/	9	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.49	Operative vaginal delivery: vacuum device or forceps /Ss/	9	2	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.50	Supervision of women with the complication pregnancy /Pr/	9	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.51	Anatomical and clinical narrow pelvis. Fetal macrosomia. Prolonged pregnancy /Pr/	9	4	OC-1 OPC- 6 PC-6 PC- 8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

2.52	Anatomical and clinical narrow pelvis /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.53	Fetal macrosomia /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.54	Birth traumatism /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.55	Shoulders dystocia /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.56	Pathology of the fetus and newborn /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.57	Prolonged pregnancy /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.58	Simulation Training course (vacuum extraction delivery, obstetrics forceps, breech presentation) /Pr/	9	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.59	Simulation Training course (vacuum extraction delivery) /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

2.60	Fetal distress /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.61	Simulation Training course (obstetrics forceps) /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.62	Simulation Training course (breech presentation) /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.63	Management of patients in womens Health organizations. Breastfeeding. The postpartum contraception /Pr/	9	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.64	Management of patients in womens Health organizations. /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.65	Breastfeeding /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.66	The postpartum contraception /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.67	Septic diseases of the postpartum period: subinvolution of the uterus, postpartum endometritis. Postpartum mastitis /Pr/	9	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.68	Septic diseases of the postpartum period: subinvolution of the uterus, postpartum endometritis /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.69	Postpartum mastitis /Ss/	9	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

2.70	Clinical case reporting of delivery of a pregnant woman. Test lesson /Pr/	9	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
2.71	Control work /Control /	9	0	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
	Section 3. Gynecology					
3.1	Inflammatory diseases of the pelvic organs /Lec/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.2	Amenorrhea. Hypomenstrual syndrome /Lec/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.3	Abnormal uterine bleeding at different ages. Endometrial hyperplasia /Lec/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.4	Pathology of the cervix /Lec/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.5	Myoma of the uterus /Lec/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.6	Genital endometriosis /Lec/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.7	Anomalies in the development and position of the female genital organs /Lec/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.8	Emergencies in gynecology /Lec/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.9	The organization of work of gynecological service in the Russian Federation. Curation of patient /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.10	Menstrual cycle. Methods for assessing the hormonal function of the ovaries /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.11	Menstrual cycle. Methods for assessing the hormonal function of the ovaries /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

3.12	Methods of gynecological examination /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.13	Methods of gynecological examination /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.14	Practical skills /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.15	Pathology of the cervix /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.16	Abnormal uterine bleeding at different ages /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

3.17	Abnormal uterine bleeding at different ages /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.18	Amenorrhea /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.19	Amenorrhea /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.20	Hyperandrogenia (Congenital adrenal hyperplasia, Polycystic ovary syndrome) /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.21	Hyperandrogenia (Congenital adrenal hyperplasia) /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.22	Hyperandrogenia (Polycystic ovary syndrome) /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.23	Menopause. Climacteric and Ovarian remnant syndrome /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.24	Menopause. Climacteric and Ovarian remnant syndrome /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.25	Genital infection (STD, Nonspecific vaginitis, Nonspecific vaginosis, candidosis) /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.26	Genital infection (STD) /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.27	Genital infection (Nonspecific vaginitis) /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.28	Genital infection (Nonspecific vaginosis, candidosis) /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.29	Inflammatory diseases of the pelvic organs /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.30	Inflammatory diseases of the pelvic organs /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.31	Abnormal uterine bleeding at different ages /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.32	Abnormal uterine bleeding at different ages /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

3.33	Myoma of the uterus /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.34	Myoma of the uterus /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

3.35	Genital endometriosis /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.36	Genital endometriosis /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.37	Anomalies in the development of the female genital organs. Genital prolapse /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.38	Anomalies in the development of the female genital organs /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.39	Genital prolapse /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.40	Emergencies in gynecology. Ectopic pregnancy, Ovarian apoplexy /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.41	Emergencies in gynecology. Ectopic pregnancy /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.42	Emergencies in gynecology. Ovarian apoplexy /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.43	Emergencies in gynecology. Ovarian torsion, Torsion of the subserosal myoma, Tubo-ovarian abscess /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.44	Emergencies in gynecology. Ovarian torsion /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.45	Emergencies in gynecology. Torsion of the subserosal myoma /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.46	Emergencies in gynecology. Tubo-ovarian abscess /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.47	Infertyle couple. IFE. /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.48	Infertyle couple. IFE. /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.49	Contraception. Practical skills (credit) /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.50	Contraception /Ss/	10	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.51	Conference: Analysis of a clinical case /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.52	Patient report. Test lesson /Pr/	10	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
3.53	Control work /Control /	10	0	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

3.54	Credit	10	0	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
	Section 4. Emergencies in obstetrics and gynecology.					
4.1	Premature birth. Modern guideline /Lec/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.2	Emergency transportation protocol for pregnant women /Lec/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.3	Eclampsia. HELLP-Syndrome. Hepatosis /Lec/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.4	Obstetrical haemorrhage during of pregnancy. during of labor and postpartum haemorrhage . Management /Lec/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.5	Sepsis. Septic shock /Lec/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.6	Acute abdominal syndrome: Ectopic pregnancy, Ovarian apoplexy /Lec/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.7	Acute abdominal syndrome: Ovarian torsion, Torsion of the subserosal myoma, Tubo-ovarian abscess. /Lec/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.8	Emergencies in gynecology /Lec/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.9	Premature birth /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.10	Premature birth /Ss/	11	0	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.11	Eclampsia. HELLP-Syndrome. Hepatosis. /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.12	Eclampsia /Ss/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.13	HELLP-Syndrome /Ss/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.14	Hepatosis /Ss/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.15	Bleeding of the II half of pregnancy /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.16	Bleeding of the II half of pregnancy /Ss/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.17	Bleeding of the I and II stages of labor /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

4.18	Bleeding of the I and II stages of labor /Ss/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.19	Bleeding in the III stage of labor (postpartum haemorrhage (PPH)). Massive obstetric bleeding. Hemorrhagic shock. DIC syndrome. /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	

4.20	Bleeding in the III stage of labor (postpartum haemorrhage (PPH)). Massive obstetric bleeding. Hemorrhagic shock. DIC syndrome /Ss/	11	3	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.21	Septic diseases of the postpartum period. Sepsis. Septic shock. /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.22	Septic diseases of the postpartum period. Sepsis. Septic shock. /Ss/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.23	Acute abdominal syndrome: Ectopic pregnancy, Ovarian apoplexy /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.24	Acute abdominal syndrome: Ectopic pregnancy, Ovarian apoplexy /Ss/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.25	Acute abdominal syndrome: Ovarian torsion, Torsion of the subserosal myoma, Tubo-ovarian abscess. /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.26	Acute abdominal syndrome: Ovarian torsion, Torsion of the subserosal myoma, Tubo-ovarian abscess /Ss/	11	2	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.27	Simulation Training course /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.28	Credit of practical skills /Pr/	11	6	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.29	/Final lesson /Pr/	11	4	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.29.1	Control work /Control /	11	0	OC-1 OPC-6 PC-6 PC-8 PC-12	L1.1L2.1 E1 E2 E3 E4 E5 E6	
4.30	Control work. Exam /Exam/	11	45		L1.1L2.1 E1 E2 E3 E4 E5 E6	

Oncogynecology

1. COURSE OBJECTIVES	
1.1	The aim of the course is to enlarge the knowledge of gynecology in order to help gynecological patients.
1.2	The objective is to realize the principles of oncological alertness, aimed at identifying and correcting precancerous diseases, diagnosing and treating malignant tumors of the female reproductive system.

1.3	Students of the medical institute continue to enlarge the knowledge of gynecology as their core, mastering the most relevant, modern and complex issues of the oncogynecology section during compulsory education.
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2. COURSE OVERVIEW	
Course code (in curriculum)	B1.V.DV.02
2.1	Assumed background knowledge:
2.1.1	Chemistry
2.1.2	Psychology and pedagogy
2.1.3	Latin
2.1.4	Biology
2.1.5	Philosophy
2.1.6	Histology, embryology, cytology
2.1.7	Bioethics
2.1.8	Anatomy
2.1.9	Hominal physiology
2.1.10	Biochemistry
2.1.11	Microbiology, virology
2.1.12	Pharmacology
2.1.13	Internal Diseases Propaedeutics, X-Ray Diagnostics
2.1.14	General surgery, radiation diagnosis
2.1.15	Immunology
2.1.16	Pathologic anatomy
2.1.17	Clinical pathologic anatomy
2.1.18	Pathophysiology
2.1.19	Obstetrics and gynecology
2.2	Post requisites:
2.2.1	Obstetrics
2.2.2	Pediatric gynecology

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

PC-5: readiness to collect and analyze the patient's complaints, his medical history, examination results, laboratory, instrumental, pathological-anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease

PC-6: the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision

PC-8: ability to determine tactics for managing patients with various nosological forms

By the end of the course students must:

3.1 Know	
3.1.1	- Diagnostic methods, diagnostic capabilities of the examining methods of the patients with a therapeutic or surgical profile; modern methods of clinical, laboratory, instrumental examination of patients.
3.1.2	- Risk factors, genetic predisposition to the occurrence of cancer diseases of the female reproductive system, statistical current incidence rates in the Russian Federation and the region.
3.1.3	- Industry standards of examination and treatment in obstetrics, gynecology and perinatology.
3.1.4	- Clinical symptoms of benign and malignant tumors of the female reproductive system, their diagnosis, treatment and prevention.
3.1.5	- Clinical symptoms, diagnosis, treatment and prevention of precancerous diseases.
3.1.6	- General and special methods of research in gynecology. Fundamentals of endoscopy, x-ray radiology in the diagnosis and treatment.
3.1.7	- The role and purpose of biopsy, morphohistological research in gynecology.
3.1.8	- Methods of pain relief; fundamentals of infusion-transfusion therapy and recovery in gynecology.
3.1.9	- Basics of pharmacotherapy in gynecology.
3.1.10	- Principles of preoperative preparation and postoperative management of patients, prevention of complications.
3.2 Be able to:	
3.2.1	- Take down the anamnesis; conduct a physical examination of the patient; schedule additional examinations in accordance with the prognosis of the disease; clarify the diagnosis and obtain reliable results.
3.2.2	- On the basis of the obtained results of the general, gynecological examination, apply additional methods of examination; determine the presumptive oncological diagnosis and determine the patient's routing in Case - study of suspected or revealed cancer.
3.2.3	- Interpret the results of laboratory and instrumental methods of research.
3.2.4	- State a diagnosis according to the International Classification of Diseases based on the data of the main and additional examinations; determine the stage of tumor growth.
3.2.5	- Conduct basic and additional examinations to clarify the diagnosis.

4. STRUCTURE AND CONTENTS

Class Code	Part and topic /class type/	Term / Ac. year	Academic hours	Competences	Literature	Interactive
	Section 1. Introduction to Oncogynecology. Organization of oncological service in Russia.					
1.1	Introduction to Oncogynecology. Organization of oncological service in Russia. /Lec/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
1.2	Multiple malignant tumors of the reproductive system. Reproductive function and oncogynecology /Lec/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
1.3	The organization of work of oncogynecological service in the Russian Federation. The role of gynecologist in early diagnostics cancer of the reproductive system /Pr/	10	4	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
1.4	The organization of work of oncogynecological service in the Russian Federation. The role of gynecologist in early diagnostics cancer of the reproductive system /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	

1.5	Multiple malignant tumors of the reproductive system. Reproductive function and oncogynecology /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
	Section 2. Radiation methods and biological markers in the diagnosis of oncologic diseases of the reproductive system. Principles of treatment and rehabilitation of oncologic patients					
2.1	Radiation methods and biological markers in the diagnosis of oncologic diseases of the reproductive system /Lec/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
2.2	Radiation methods and biological markers in the diagnosis of oncologic diseases of the reproductive system /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
2.3	Principles of treatment and rehabilitation of oncologic patients /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
	Section 3. Precancer and cervical cancer, and reproductive health of women. Endometrial hyperplastic processes. Endometrial cancer					
3.1	Pathology of the cervix. Precancer and cervical cancer /Lec/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
3.2	Endometrial hyperplastic processes. Endometrial cancer /Lec/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
3.3	Endometrial hyperplastic processes. Endometrial cancer /Pr/	10	4	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
3.4	Endometrial hyperplastic processes /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
3.5	Endometrial cancer /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
3.6	Cervical intraepithelial neoplasia. Precancerous conditions of the cervix and cervical cancer /Pr/	10	4	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
3.7	Cervical intraepithelial neoplasia. Precancerous conditions of the cervix and cervical cancer /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
	Section 4. Benign tumors and ovarian tumor formation. Ovarian cancer					
4.1	Tumors and tumor-like formations of the ovaries /Lec/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	

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4.2	Tumors and tumor-like formations of the ovaries /Pr/	10	4	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
4.3	Tumors and tumor-like formations of the ovaries /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
4.4	Ovarian cancer /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
	Section 5. Trophoblastic disease. Malignant tumors and pregnancy					
5.1	Trophoblastic disease /Lec/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.2	Malignant tumors and pregnancy /Lec/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.3	Trophoblastic disease /Pr/	10	4	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.4	Trophoblastic disease /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.5	Malignant tumors and pregnancy /Pr/	10	4	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.6	Malignant tumors and pregnancy /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.7	Breast cancer /Pr/	10	4	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.8	Breast cancer /Ss/	10	2	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.9	Test lesson /Pr/	10	4	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.10	Control work /Control /	10	0	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	
5.11	Credit	10	0	PC-5 PC-6 PC-8	L1.1 L1.2L2.1 E1 E2 E3 E4 E5 E6	

Outpatient Therapy

1. COURSE OBJECTIVES

1.1	The aim is to prepare students for performing preventive, diagnostic, medical, rehabilitative, organizational and managerial work in health facilities, according to the requirements of the Federal State Educational Standard of Higher Education.
1.2	The objectives of mastering the discipline " Outpatient Therapy" are to acquaint the students with the organization of ambulatory outpatient care, tasks and duties of a primary care physician, methods of diagnostics and treatment of common diseases.

2. COURSE OVERVIEW

Course code (in curriculum)	B1.B
2.1	Assumed background:
2.1.1	Immunology
2.1.2	Hygiene
2.1.3	Epidemiology
2.1.4	Medical Rehabilitation
2.1.5	Clinical Pharmacology
2.1.6	Neurology, Clinical Genetics, Neurosurgery
2.1.7	Faculty Therapy, Professional Diseases
2.1.8	Introduction to Internal Medicine, X-Ray Diagnostics
2.1.9	Hospital Therapy, Endocrinology
2.2	Post requisites:
2.2.1	Clinical Practice, General Practitioner Assistant (hospital)
2.2.2	Clinical Practice, General Practitioner Assistant (outpatient)
2.2.3	Practice, research work

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

By the end of the course students must:

3.1	Know:
3.1.1	□ how to analyse the effectiveness of their actions;
3.1.2	□ how to introduce new work forms;
3.1.3	□ how to use the legal and regulatory documentation, regulating professional work, to apply the methods of medical statistics;
3.1.4	how to analyse the indicators of the population's health and health care facilities work efficiency;
3.1.5	□ how to maintain medical documentation, with the use of computing as well;
3.1.6	□ how to use application program software for work purposes;
3.1.7	how to apply information technology (computer workstation) in professional activities;
3.1.8	□ aetiology, pathogenesis and prevention measures of the most frequent diseases;
3.1.9	□ present-day disease classification;
3.1.10	□ clinical picture of a disease, disease progression and the possible complications of typical forms of most frequent diseases in different age groups;
3.1.11	□ diagnostic methods, features of diagnostic examination methods in therapeutics, surgery and infectious diseases treatment, modern methods of clinical, laboratory, instrumental examination of patients (including the endoscopic and radiological methods, ultrasound diagnostics);
3.1.12	□ the basics of preventive medicine, organization of preventive measures for the population's health improvement;

3.1.13	▢public health education techniques;
3.1.14	▢the basics of organization of (outpatient and inpatient) care for various population groups, medical screening principles, the patients' rehabilitation, the basics of health maintenance for athletes;
3.1.15	▢the system of temporary incapacity examination and social security disability medical examination in the Russian Federation;
3.1.16	▢doctor's rights, duties and responsibilities;
3.1.17	▢the features of organization and amount of doctor's work in ambulatory outpatient unit, present-day diagnostic capacities of outpatient service, first emergency medical aid measures, indications for planned hospital admission of patients;
3.1.18	▢the system of temporary incapacity examination and social security disability medical examination in the Russian Federation;
3.1.19	▢doctor's rights, duties and responsibilities;
3.1.20	▢the features of organization and amount of doctor's work in ambulatory outpatient unit, present-day diagnostic capacities of outpatient service, first emergency medical aid measures, indications for planned hospital admission of patients
3.2	be able to:
3.2.1	▢plan, analyse and evaluate the quality of medical aid, the population's health status and natural and industrial environment influence on it;
3.2.2	▢use application programs for work purposes;
3.2.3	▢ use information technology (computer workstation) in professional activities;
3.2.4	▢take part in arranging and taking preventive and anti-epidemic measures among people with regard to their social and professional status (such as being a professional athlete), age and gender;
3.2.5	▢identify patient's status: obtaining patient's medical history, interviewing patients and/or their relatives, physical examination of a patient (general examination, palpation, auscultation, measurement of blood pressure, defining arterial pulse properties, etc.);
3.2.6	▢evaluate the patient's condition for health services delivery;
3.2.7	▢do initial examination of patient's systems and organs: nervous system, endocrine system, immune system, respiratory system, cardiovascular system, blood and hematopoietic organs, digestive system, urinary system, reproductive system, locomotor system and joints, eyes, ears, throat, nose;
3.2.8	▢take primary and secondary measures among the patients of the health service area to prevent the most frequent diseases demanding the medical or surgical treatment
3.2.9	▢take preventive measures to raise patients' organisms resistance to adverse environmental factors, promote physical activity, sports, and healthy lifestyle;
3.2.10	▢evaluate the effectiveness of prophylactic medical examination for patients;
3.2.11	▢conduct examination for temporary incapacity assignment;
3.2.12	▢determine indications for the social security disability medical examination;
3.2.13	▢apply first aid in case of medical emergencies, first aid measures to injured people in affected areas in case of emergency.

4. . STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics/Class type	Term / Academic year	Academic hours	Competences	Literature	Interactive
	Chapter 1. 1.1 Organization of ambulatory outpatient care for the population of the Russian Federation /lecture					
1.1	Organization of ambulatory outpatient care for the population of the Russian Federation /Lec/	9	2	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	

1.2	Basic knowledge of regulatory documentation /Pr.work/	9	8	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
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1.3	Basic knowledge of regulatory documentation / self-study /In.work/	9	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
	Chapter 2. Practical work of a primary care physician at an outpatient department. Tasks, duties and work process of a primary care physician. Preventive services. Health resort treatment					
2.1	Practical work of a primary care physician at an outpatient department. Tasks, duties and work process of a primary care physician. Preventive services. Health resort treatment /Lec/	9	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
2.2	Practical work of a primary care physician at an outpatient department. Tasks, duties and work process of a primary care physician. Preventive services. Health resort treatment /Pr.work/	9	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
2.3	Practical work of a primary care physician at an outpatient department. Tasks, duties and work process of a primary care physician. Preventive services. Health resort treatment /In.work/	9	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
	Chapter 3. Social security medical examination and incapacity examination in the ambulatory outpatient practice					
3.1	Social security medical examination and incapacity examination in the ambulatory outpatient practice /Lec/	9	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
3.2	Social security disability medical examination and incapacity examination in the ambulatory outpatient practice /Pr.work/	9	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
3.3	Social security disability medical examination and incapacity examination in the ambulatory outpatient practice /In.work/	9	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
	Chapter 4. Persistent low-grade fever and fever syndrome in practice of a health centre physician					
4.1	Persistent low-grade fever and fever syndrome in practice of a health centre physician /Lec/	9	2	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
4.2	Persistent low-grade fever and fever syndrome in practice of a health centre physician /Pr.work/	9	18	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	

4.3	Persistent low-grade fever and fever syndrome in practice of a health centre physician /In.work/	9	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
	Chapter 5. Influenza and other acute respiratory viral infections in practice of a primary care physician					
5.1	Influenza and other acute respiratory viral infections in practice of a primary care physician /Lec/	9	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	

5.2	Influenza and other acute respiratory viral infections in practice of a primary care physician /Pr.work/	9	14	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
5.3	Influenza and other acute respiratory viral infections in practice of a primary care physician /In.work/	9	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
5.4	/Counter slave/	9	0	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
	Chapter 6. Pneumonia. Diagnosis, treatment principles, prophylactic medical examination					
6.1	Pneumonia. Diagnosis, treatment principles, prophylactic medical examination /Lec/	10	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
6.2	Pneumonia. Diagnosis, treatment principles, prophylactic medical examination /Pr.work/	10	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
6.3	Pneumonia. Diagnosis, treatment principles, prophylactic medical examination /In.work/	10	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
	Chapter 7. Differential diagnosis of chronic obstructive pulmonary disease and bronchial asthma, indications for hospitalization, treatment of chronic obstructive pulmonary disease and bronchial asthma in practice of a primary care physician					
7.1	Differential diagnosis of chronic obstructive pulmonary disease and bronchial asthma, indications for hospitalization, treatment of chronic obstructive pulmonary disease and bronchial asthma in practice of a primary care physician /Lec/	10	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
7.2	Differential diagnosis of chronic obstructive pulmonary disease and bronchial asthma, indications for hospitalization, treatment of chronic obstructive pulmonary disease and bronchial asthma in practice of a primary care physician /Pr.work/	10	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	

7.3	Differential diagnosis of chronic obstructive pulmonary disease and bronchial asthma, indications for hospitalization, treatment of chronic obstructive pulmonary disease and bronchial asthma in practice of a primary care physician /In.work/	10	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3	
	Chapter 8. Iron deficiency and B12 deficiency anemia in practice of a primary care physician					
8.1	Iron deficiency and B12 deficiency anemia in practice of a primary care physician /Lec/	10	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	

8.2	Iron deficiency and B12 deficiency anemia in practice of a primary care physician /Pr.work/	10	8	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
8.3	Iron deficiency and B12 deficiency anemia in practice of a primary care physician /In.work/	10	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.3 L3.1	
8.4	/Counter slave/	10	0	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
8.5	/Test /	10	0	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
	Chapter 9. Features of the course and treatment of somatic diseases during pregnancy and the tasks of a health centre primary care physician. Antenatal care during pregnancy and after childbirth					
9.1	Features of the course and treatment of somatic diseases during pregnancy and the tasks of a health centre primary care physician. Antenatal care during pregnancy and after childbirth /Lec/	11	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
9.2	Features of the course and treatment of somatic diseases during pregnancy and the tasks of a health centre primary care physician. Antenatal care during pregnancy and after childbirth /Pr.work/	11	16	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
9.3	Features of the course and treatment of somatic diseases during pregnancy and the tasks of a health centre primary care physician. Antenatal care during pregnancy and after childbirth /In.work/	11	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
	Chapter 10. Chronic gastritis, peptic ulcer, chronic pancreatitis, functional dyspepsia in practice of a primary care physician					
10.1	Chronic gastritis, peptic ulcer, chronic pancreatitis, functional dyspepsia in practice of a primary care physician /Lec/	11	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	

10.2	Chronic gastritis, peptic ulcer, chronic pancreatitis, functional dyspepsia in practice of a primary care physician /Pr.work/	11	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
10.3	Chronic gastritis, peptic ulcer, chronic pancreatitis, functional dyspepsia in practice of a primary care physician /In.work/	11	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
	Chapter 11. Functional disorders of colon, biliary dyskinesia and chronic non-calculous cholecystitis in practice of a health centre primary care physician					
11.1	Functional disorders of colon, biliary dyskinesia and chronic non-calculous cholecystitis in practice of a health centre primary care physician /Lec/	11	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	

11.2	Functional disorders of colon, biliary dyskinesia and chronic non-calculous cholecystitis in practice of a health centre primary care physician /Pr.work/	11	18	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
11.3	Functional disorders of colon, biliary dyskinesia and chronic non-calculous cholecystitis in practice of a health centre primary care physician /In.work/	11	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
	Chapter 12. Acute and chronic glomerulonephritis, differential diagnosis, indications for hospitalization, chronic pyelonephritis in practice of a health centre primary care physician					
12.1	Acute and chronic glomerulonephritis, differential diagnosis, indications for hospitalization, chronic pyelonephritis in practice of a health centre primary care physician /Lec/	11	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
12.2	Acute and chronic glomerulonephritis, differential diagnosis, indications for hospitalization, chronic pyelonephritis in practice of a health centre primary care physician /Pr.work/	11	18	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
12.3	Acute and chronic glomerulonephritis, differential diagnosis, indications for hospitalization, chronic pyelonephritis in practice of a health centre primary care physician /In.work/	11	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
12.4	/ Test/	11	0	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
12.5	/ Counter slave /	11	0	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
	Chapter 13. Hypertension, symptomatic hypertension in practice of a health centre primary care physician					

13.1	Hypertension, symptomatic hypertension in practice of a health centre primary care physician /Lec/	12	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
13.2	Hypertension, symptomatic hypertension in practice of a health centre primary care physician /Pr.work/	12	18	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
13.3	Hypertension, symptomatic hypertension in practice of a health centre primary care physician /In.work/	12	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
	Chapter 14. Syndrome of pain on the left side of the chest. Managing patients with coronary artery disease and non-coronary myocardial diseases in out-patient clinic conditions, indications for hospitalization. Ambulatory Outpatient stage of rehabilitation of patients with acute coronary syndrome and myocardial infarction					
14.1	Syndrome of pain on the left side of the chest. Managing patients with coronary artery disease and non-coronary myocardial diseases in out-patient clinic conditions, indications for hospitalization. Ambulatory Outpatient stage of rehabilitation of patients with acute coronary syndrome and myocardial infarction /Lec/	12	6	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
14.2	Syndrome of pain on the left side of the chest. Managing patients with coronary artery disease and non-coronary myocardial diseases in out-patient clinic conditions, indications for hospitalization. Ambulatory Outpatient stage of rehabilitation of patients with acute coronary syndrome and myocardial infarction /Lec/	12	22	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
14.3	Syndrome of pain on the left side of the chest. Managing patients with coronary artery disease and non-coronary myocardial diseases in out-patient clinic conditions, indications for hospitalization. Ambulatory Outpatient stage of rehabilitation of patients with acute coronary syndrome and myocardial infarction /In.work/	12	12	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
	Chapter 15. Diseases of the musculoskeletal system: rheumatoid arthritis, reactive arthritis, osteoarthritis, gout in practice of a health centre primary care physician					
15.1	Diseases of the musculoskeletal system: rheumatoid arthritis, reactive arthritis, osteoarthritis, gout in practice of a health centre primary care physician /Lec/	12	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
15.2	Diseases of the musculoskeletal system: rheumatoid arthritis, reactive arthritis, osteoarthritis, gout in practice of a health centre primary care physician /Pr.work/	12	24	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	

15.3	Diseases of the musculoskeletal system: rheumatoid arthritis, reactive arthritis, osteoarthritis, gout in practice of a health centre primary care physician /In.work/	12	4	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
15.4	/Counter slave./	12	0	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	
15.5	/Exams/	12	36	GC-1 GPC- 1 PC-1 PC- 2 PC-7 PC- 11	L1.1L2.2 L2.3 L3.1	

Phthisiatry

1. COURSE OBJECTIVES

1.1	The objectives of mastering Phthisiatry are to acquire knowledge and practical skills in the detection, diagnosing, performing differential diagnosis of tuberculosis, extrapulmonary tuberculosis and other respiratory diseases, as well as prevention and treatment of tuberculosis.
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2. COURSE OVERVIEW

Course code (in curriculum)	Б1.Б.39
2.1	<p>Assumed background: Clinical Anatomy Normal physiology Anatomy Histology, embryology, cytology Biology Industrial practice, to obtain professional skills and professional experience (assistant to junior medical staff) Educational practice, clinical (care of a therapeutic patient, care of a surgical patient) Chemistry Bioethics History of medicine</p>
2.2	<p>Post requisites: Ophthalmology Dentistry Hospital Therapy, Endocrinology Hospital Surgery, Pediatric Surgery Dermatovenerology Infectious Diseases Outpatient Therapy Public health and health care, Economy of Public Health Clinical Epidemiology Clinical Pharmacology Anesthesiology, Resuscitation, Intensive Care Medical Rehabilitation Hospital Therapy, Endocrinology Disaster medicine</p>

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

UC-1. Able to critically analyze problem situations on the basis of a systematic approach, develop a strategy of action

GPC-9. Able to implement the principles of quality management in professional activities
PC-5 Able to develop a treatment plan (medication, non-medication, palliative) based on the established diagnosis, to organize personalized treatment, including for pregnant women, elderly and elderly patients, as well as to evaluate the effectiveness and safety of the therapy provided.
PC-6 Capable of assessing the possibility and effectiveness of rehabilitation or habilitation measures in a patient with loss of body functioning, labor activity
PC-8 Capable of maintaining medical records and organizing the activities of medical staff
PC-9 Capable of analyzing and publicly presenting medical information based on evidence-based medicine
PC-10 Capable of participating in the introduction of new methods and techniques aimed at protecting the health of citizens

By mastering of the course students must:

3.1	<p>know:</p> <ul style="list-style-type: none"> • the modern definition of tuberculosis, reflecting the etiology, pathogenesis, clinical and morphological characteristics, indicating the leading clinical syndrome of one form or another; • to reveal the full content of the theoretical foundations of the subject; • how to correctly interpret the basic concepts of immunology, justify the need for clinical and immunological examination, perform differential diagnosis of diseases of the immune system, evaluate the importance of immunogenetic factors in the pathogenesis and diagnosis of human immuno-mediated diseases, in organ and tissue transplantation; • the mandatory set of diagnostic methods used in the examination of tuberculosis in adults and children, clinical symptoms, physical, microbiological, radiological, immunological signs characteristic of tuberculosis in adults and children; • methods of detection of tuberculosis patients among adults, children and adolescents; • methods of specific and sanitary prevention of tuberculosis in adults and children;
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	<ul style="list-style-type: none"> • organizational forms of tuberculosis patients treatment, the list of anti-tuberculosis drugs, indications for their prescription; • the necessary set of therapeutic measures for complications of tuberculosis pulmonary bleeding, spontaneous pneumothorax, in the event of adverse reactions to anti-tuberculosis drugs.
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3.2	<p>be able to:</p> <ul style="list-style-type: none"> • make a plan of examination of the patient suspected of tuberculosis; • interview the patient and his / her relatives, conduct a physical examination of the patient, formulate a preliminary diagnosis, formulate an opinion on the patient's health and draw up medical documentation on the results of the examination; • examine sputum smears under a light microscope to detect MBT and evaluate the results of bacterioscopic and bacteriological examination; • detect, evaluate and describe pathological changes detected by radiation methods in patients with tuberculosis; • determine the indications and evaluate the result of skin-allergic Mantoux test and provocative Koch test; • determine the indications and contraindications for TB vaccination, revaccination and to assess the course of vaccination reaction with intradermal administration of BCG vaccine; to determine the indications for the chemotherapy of tuberculosis; • determine the indications for antibiotic therapy, assess its tolerability and, if necessary, make prescriptions to eliminate adverse reactions of drugs; • diagnose emergency conditions in tuberculosis patients and provide them with first aid; • establish the type of focus of tuberculosis infection and make a plan of measures for its recovery; • give recommendations for preventive measures specifically for the patient and the team in the Far North; □ solve general deontological issues related to the examination and treatment of a patient with tuberculosis; □ identify the nearest and remote forecast for supervised patient in relation to life, healing and disability.
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4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics /Class type	Term / Academic	Academic hours	5. Competences	Literature	Interactive	Notes
	Section 1. Theoretical foundations of Phthisiatry:	year					

1.1	Introduction to the subject of Phthisiatry / lecture /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.2	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.3	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / lecture /	8	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.4	Pathogenesis and pathological anatomy of tuberculosis. Immunity and Allergy in tuberculosis. Pathomorphosis of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.5	Epidemiology, etiology of tuberculosis / self-study /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
1.6	Immunity and Allergy in tuberculosis /self-study/	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

	Section 2. Tuberculosis dispensary (clinic)						
2.1	Organization and system of anti-tuberculosis care /lecture /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.2	Methods and organization of early detection of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.3	Methods and organization of early detection of tuberculosis / lecture /	8	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

2.4	The value of the x-ray examination of the chest for the detection of focal pulmonary tuberculosis / self-study/	8	8	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.5	Prevention of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.6	Prevention of tuberculosis / lecture /	8	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
2.7	Prevention of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
Section 3. Diagnosing							
3.1	tuberculosis Features of clinical examination of patients with tuberculosis / lecture /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1		
3.2	Features of clinical examination of patients with tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L1.2		
3.3	Radiation diagnostics of tuberculosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
3.4	Immunodiagnosis / practical classes /	8	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
3.5	Immunodiagnosis /lecture /	8	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

3.6	Immunodiagnosis / self-study /	8	8	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
3.7	Credit	8	0	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
Section 4. The clinical course of tuberculosis							
4.1	Clinical classification of tuberculosis /lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.2	Primary tuberculosis /lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.3	Primary tuberculosis / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.4	Primary tuberculosis / Self-study /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.5	Miliary and disseminated pulmonary tuberculosis. Tuberculous meningitis /lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

4.7	Solving clinical problems / self-study/	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.8	Miliary and disseminated pulmonary tuberculosis. Tuberculous meningitis / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.9	Focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. Pulmonary tuberculosis / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

4.10	Focal pulmonary tuberculosis. Infiltrative pulmonary tuberculosis. Pulmonary tuberculosis / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.12	Differential diagnosis of tuberculosis and lung cancer (peripheral)/ self-study /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.13	Cavernous, fibrous-cavernous and cirrhotic pulmonary tuberculosis. Complications of tuberculosis. The state of emergency in the Phthisiology / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.14	Cavernous, fibrous-cavernous and cirrhotic pulmonary tuberculosis. Complications of tuberculosis. The state of emergency in the Phthisiology / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.15	Differential diagnosis of destructive pulmonary tuberculosis / self-study	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.16	Tuberculous pleurisy / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.17	Tuberculous pleurisy. Pulmonary tuberculosis and diseases of other organs and systems / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.18	Fibrinous pleurisy as a complication of pulmonary tuberculosis and its treatment / self-study /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.19	Extrapulmonary tuberculosis / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.20	Extrapulmonary tuberculosis / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
4.21	Differential diagnosis of tuberculous meningitis. Treatment of patients with tuberculosis meningitis / self-study/	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
Section 5. Treatment of							

5.1	tuberculosis. General principles and methods of tuberculosis treatment / lecture /	9	2	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
5.2	General principles and methods of tuberculosis treatment / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
5.3	Collapse therapy. Indications and efficiency / practical classes /	9	4	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
5.4	General principles and methods of tuberculosis treatment /Self-study /	9	24	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
Section 6. Exam							
6.1	Control work /Control /	9	0	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		
6.2	/ Exam/	9	27	UC-1, GPC-9, PC-5, PC-6 PC-8, PC-9 PC-10	L 1.1 L1.2 L 2.1 E1 E2 E3		

Physiotherapy (adaptive program)

1. COURSE OBJECTIVES	
1.1	The purpose of the discipline: the formation
1.2	of a system of universal and professional competencies for a resident studying in the specialty "Physiotherapy", in the form
1.3	of providing medical assistance in physiotherapy through diagnosis,
1.4	treatment and
1.5	prevention

2. COURSE OVERVIEW	
Course code (in curriculum)	B1.V.DV.02
2.1 Assumed background knowledge:	
2.1.1	Chemistry
2.1.2	Psychology and pedagogy
2.1.3	Latin
2.1.4	Biology
2.1.5	Philosophy
2.1.6	Histology, embryology, cytology
2.1.7	Bioethics

2.1.8	Anatomy
2.1.9	Hominal physiology
2.1.10	Biochemistry
2.1.11	Microbiology, virology
2.1.12	Pharmacology
2.1.13	Internal Diseases Propaedeutics, X-Ray Diagnostics
2.1.14	General surgery, radiation diagnosis
2.1.15	Immunology
2.1.16	Pathologic anatomy
2.1.17	Clinical pathologic anatomy
2.1.18	Pathophysiology
2.1.19	Obstetrics and gynecology
2.2	Post requisites:
2.2.1	Pediatric gynecology
2.2.2	Perinatology
2.2.3	Industrial practice of obstetric and gynecological profile
2.2.4	Obstetrics

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

OC-1: ability for abstract thinking, analysis, synthesis

PC-12: readiness to manage physiological pregnancy, deliver birth

PC-14: readiness to determine the need to use natural healing factors, drug, non-drug therapy and other methods for patients in need of medical rehabilitation and sanatorium-resort treatment

By the end of the course students must:

3.1	Know
3.1.1	- the relationship of the functional systems of the body and the levels of their regulation
3.1.2	
3.1.3	- physiology of pregnancy, childbirth and the postpartum period;
3.1.4	- principles of the occurrence of pathological processes, mechanisms of their development and clinical manifestations in
3.1.5	obstetrics and gynecology.
3.1.6	- mechanisms of the therapeutic and rehabilitative effect of natural therapeutic factors, medicinal,
3.1.7	non-drug therapy and other methods in the treatment of diseases in obstetrics and gynecology;
3.1.8	
3.1.9	- fundamentals of physiotherapy and physical therapy in obstetrics and gynecology;
3.1.10	- indications and contraindications to physiotherapy and spa treatment;
3.1.11	- rules and requirements for the equipment of the physiotherapy department (office), operation and
3.1.12	safety in the organization of the physiotherapy department (office);
3.1.13	-

3.1.14	principles of evaluation of indicators of general and functional methods of examination of patients referred for physiotherapy.
3.2	Be able to:
3.2.1	- independently organize mental work (thinking) and work with information (synthesis);
3.2.2	
3.2.3	- identify the most common complications of pregnancy, childbirth and the postpartum period;
3.2.4	- to provide basic diagnostic and therapeutic manipulations to pregnant women, women in labor and maternity hospitals;
3.2.5	
3.2.6	- apply natural therapeutic factors, medicinal and non-medicinal therapy and other methods, taking into account indications and contraindications, prescribing conditions and effectiveness control;
3.2.7	- to determine the appropriate methods of exposure to physical factors in certain diseases, to choose the optimal physiotherapy complex for the patient;
3.2.8	- to assess the course of the disease and the effectiveness of the influence of physical factors, to assess possible complications of the disease and complications associated with the effects of physical factors;
3.2.9	- to issue the necessary medical documentation.

4. STRUCTURE AND CONTENTS

Class Code	Part and topic /class type/	Term / Ac. year	Academic hours	Competences	Literature	Interactive
	Section 1. Physiotherapy in the medical rehabilitation system. Fundamentals of the therapeutic use of physical factors.					
1.1	Physiotherapy in the medical rehabilitation system. Fundamentals of the therapeutic use of physical factors in obstetrics and gynecology. /Lec/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.2	Types of physiotherapy treatment in obstetrics and gynecology. /Lec/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.3	Electrotherapy in obstetrics and gynecology. /Lec/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.4	Phototherapy in obstetrics and gynecology. /Lec/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.5	Treatment with mechanical influences in obstetrics and gynecology. /Lec/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.6	Aerosol therapy. Electroaerosol therapy. Speleotherapy. Halotherapy. /Lec/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.7	Hydrotherapy. Heat and cold treatment in obstetrics and gynecology. /Lec/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.8	Combination and combination of physical factors and medical treatment in obstetrics and gynecology /Lec/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.9	Physiotherapy in the medical rehabilitation system. Fundamentals of the therapeutic use of physical factors in obstetrics and gynecology. /Pr/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	

1.10	Physiotherapy in the medical rehabilitation system. Fundamentals of the therapeutic use of physical factors in obstetrics and gynecology. /Ss/	10	2,5	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.11	Types of physiotherapy treatment in obstetrics and gynecology. /Pr/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.12	Types of physiotherapy treatment in obstetrics and gynecology. /Ss/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.13	Electrotherapy in obstetrics and gynecology. /Pr/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.14	Electrotherapy in obstetrics and gynecology. /Ss/	10	2,5	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.15	Phototherapy in obstetrics and gynecology. /Pr/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.16	Phototherapy in obstetrics and gynecology. /Ss/	10	2,5	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.17	Treatment with mechanical influences in obstetrics and gynecology. /Pr/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.18	Treatment with mechanical influences in obstetrics and gynecology. /Ss/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.19	Aerosol therapy. Electroaerosol therapy. Speleotherapy. Halotherapy. /Pr/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.20	Aerosol therapy. Electroaerosol therapy. Speleotherapy. Halotherapy. /Ss/	10	2,5	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.21	Hydrotherapy. Heat and cold treatment in obstetrics and gynecology. /Pr/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.22	Hydrotherapy. Heat and cold treatment in obstetrics and gynecology. /Ss/	10	2	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.23	Combination and combination of physical factors and medical treatment in obstetrics and gynecology /Pr/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	

1.24	Combination and combination of physical factors and medical treatment in obstetrics and gynecology /Ss/	10	4	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.25	Control work /Control /	10	0	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.26	Credit	10	0	OC-1 PC-12 PC-14	L1.1L2.1 E1 E2 E3 E4 E5 E6	

1. COURSE OBJECTIVES

- | | |
|-----|--|
| 1.1 | Acquisition by students of systematized scientific knowledge about the etiology, pathogenesis, clinical picture, diagnosis, treatment and prevention of the most common and/or significant mental illnesses with an emphasis on identifying the main symptoms, syndromes and nosological forms; on examination, employment and rehabilitation of mentally ill patients; about systems ensuring the preservation, strengthening and restoration of mental health of the population; and also – development of the ability to determine the tactics of patient management, the formation of clinical thinking and professional competencies necessary within the framework of the professional activity of a doctor in the specialty “General Medicine”. |
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2. COURSE OVERVIEW

Course code (in curriculum)	
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2.1	Assumed background knowledge:
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|--------|---|
| 2.1.1 | Ophthalmology |
| 2.1.2 | Neurology, medical genetics, neurosurgery |
| 2.1.3 | Pathological anatomy |
| 2.1.4 | Pathophysiology |
| 2.1.5 | Pharmacology |
| 2.1.6 | Biochemistry |
| 2.1.7 | Histology, embryology, cytology |
| 2.1.8 | Philosophy |
| 2.1.9 | Latin language |
| 2.1.10 | Chemistry |

2.2	Post requisites:
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- | | |
|-------|---|
| 2.2.1 | Anesthesiology, resuscitation, intensive care |
| 2.2.2 | Clinical pharmacology |

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

GC-1: ability for abstract thinking, analysis, synthesis

GPC-1: willingness to solve standard problems of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies and taking into account basic information security requirements

GPC-6: readiness to maintain medical records

GC-5: readiness to collect and analyze the patient’s complaints, his medical history, examination results, laboratory, instrumental, pathological-anatomical and other studies in order to recognize the condition or establish the presence **or absence of the disease**

GC-6: the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, revision **GC-8:** ability to determine tactics for managing patients with various nosological forms

GC-10: readiness to provide medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient’s life and do not require emergency medical care

Psychiatry, medical psychology

By mastering of the course students must:

3.1	Know:
3.1.1	the specifics of the subject and objectives of the discipline “psychiatry, medical psychology”;
3.1.2	morpho-functional, physiological states and pathological processes in the human body to solve professional problems of a psychiatric profile;
3.1.3	a methodology for collecting and analyzing patient complaints, his medical history, examination results, laboratory, instrumental, pathological, anatomical and other studies in order to recognize the condition or establish the presence or absence of a psychiatric disease;
3.1.4	main psychiatric pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision;
3.1.5	tactics for managing patients with various nosological forms;
3.1.6	basic concepts used in psychiatry and medical psychology;

3.1.7	modern methods for diagnosing major human mental illnesses;
3.1.8	types and indications for the use of medications for psychiatric diseases;
3.1.9	types and indications for the use of non-drug methods of treating mental disorders;
3.1.10	prevention and rehabilitation in psychiatry;
3.1.11	principles of organizing psychiatric services.

3.2	be able to:
3.2.1	analyze significant pathological processes, correctly interpret and apply the basic concepts of psychiatry and medical psychology when studying biomedical and medical literature and when working together with medical specialists;
3.2.2	assess morpho-functional, physiological states and pathological processes in the human body to solve professional problems;
3.2.3	collect and analyze the patient’s complaints, his medical history, evaluate the results of examination, laboratory, instrumental, conduct differential hardware, diagnosis pathological of human and mental other studies illnesses; in order to recognize the condition or establish the presence or
3.2.4	determine the patient’s main pathological conditions, symptoms, syndromes and nosological forms of mental disorders
3.2.5	indetermine accordance tactics with for the managing International patients Statistical with various Classification nosological of Diseases forms of and mental Related disorders; Health Problems, X revision;
3.2.6	justify the need and prescribe medications and non-drug treatment for mental illness.
3.2.7	

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topic /class type/	Term/Ac. year	Academic hours	Competences	Literature	Interactiv e	Notes
	Section 1. General psychiatry					e	
1.1	Subject and tasks of psychiatry. Organization of psychiatric care in Russia. /Pr/	9	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		

1.2	Subject and tasks of psychiatry. Organization of psychiatric care in Russia Self-study/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.2	Subject and tasks of psychiatry. Organization of psychiatric care in Russia Self-study/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.4	Evolutionary foundations of the theory of the origin of mental disorders /Pr/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		

1.5	Evolutionary foundations of the theory of the origin of mental disorders/ Self-study/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.6	Pathology of thinking /Selfstudy/	9	3	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.7	Pathology of thinking /Lec/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.8	Memory and intelligence disorders. /Pr/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.9	Memory and intelligence disorders. /Лек/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.10	Memory and intelligence disorder/Self-study/	9	3	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.11	Patology of emotions and will. /Lec/	9	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		

1.12	Patology of emotions and will. /Pr/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.13	Patology of emotions and will. Self-study/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.14	Pathology of consciousness and attention. Basic psychopathological syndromes. /Lec/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.15	Psychopathological syndromes. /Pr/	9	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.16	Pathology of consciousness and attention. Basic psychopathological syndromes /Pr/	9	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.17	Pathology of consciousness and attention. Basic psychopathological syndromes /Self-study/	9	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.18	Mental disorders due to substance use /Lec/	9	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.19	Mental disorders due to substance use/Pr/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.20	Medical and psychological aspects of sensory cognition, emotions, will, memory, thinking, consciousness. Selfstudy/	9	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.21	Medical and psychological aspects of somatic pathology. Interaction in the doctor-patient pair. Compliance problem. Personal reactions to illness. Self-study/	9	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.22	Medical and psychological aspects of sensory cognition, emotions, will, memory, thinking, consciousness/ Pr /	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		

1.23	Medical and psychological aspects of somatic pathology. Interaction in the doctor-patient pair. Compliance problem. Personal reactions to illness. /Pr/	9	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
1.24	Test	9	0	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		Test
1.25	Credit	9	0	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		Credit
	Section 2. Private psychiatry				E5 E6 E7		
2.1	Research methods in psychiatry. /Pr/	10	6	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		

E5 E6 E7

2.2	Research methods in psychiatry. Self-study/	10	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.3	Organic, including symptomatic, mental disorders. /Cp/	10	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.4	Organic, including symptomatic, mental disorders. /Pr/	10	6	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.5	Epileptic disease and symptomatic epilepsy. /Pr/	10	6	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.6	Epileptic disease and symptomatic epilepsy. Selfstudy/	10	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.7	Mental disorders due to the use of psychoactive substances. /Pr/	10	6	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.8	Mental disorders due to the use of psychoactive substances. Selfstudy/	10	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		

2.9	Disorders of mature personality. /Pr/	10	8	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
2.10	Disorders of mature personality. Self-study/	10	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
2.11	Neurotic, stress-related and somatoform disorders /Pr/	10	6	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.12	Neurotic, stress-related and somatoform disorders. /Selfstudy/	10	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.13	Affective mood disorders /Selfstudy/	10	2	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.14	Schizophrenia, schizoaffective disorder, chronic delusional disorders. Acute transient psychotic disorder/Pr/	10	6	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		
2.15	Schizophrenia, schizoaffective disorder, chronic delusional disorders. Acute transient psychotic disorders/Self-study/	10	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		

E5 E6 E7

2.16	Differential diagnosis in psychiatry /Pr/	10	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
2.17	Differential diagnosis in psychiatry/Self-study/	10	4	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4 E5 E6 E7		
2.18	Control work	10	0	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3 L2.1 L2.2 L2.3 L3.1 E1 E2 E3 E4		Control work
2.19	Exam/	10	36	GC-1 GPC- 1 GPC-6 GC-5 GC-6 GC-8 GC-10	L1.1 L1.2 L1.3E5 E6 E7 L2.1 L2.2 L2.3		Exam

						L3.1 E1 E2 E3 E4		
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Public health and health care, Economy of Public Health

1. OBJECTIVES OF MASTERING THE DISCIPLINE	
1.1	The aim of the course "Public health and health care, Economy of Public Health" is to give knowledge and abilities necessary for the future doctors' work in the sphere of public health. The objectives of mastering the discipline are to provide preservation, promotion and recovery of people's health; to acquaint the students with organizational and medical technologies, management processes, including economic, legal, administrative, organizational procedures, the intrabranh and intersectoral relations; trends of development of health care in foreign countries.

2. PLACE OF THE DISCIPLINE IN THE STRUCTURE OF THE EDUCATIONAL PROGRAM	
Course code	Б1.Б
2.1(i)	Assumed background:
2.1.1	Bioethics
2.1.2	History of medicine
2.1.3	Medical informatics
2.1.4	Hygiene
2.1.5	Hominal physiology
2.1.6	Anatomy
2.1.7	Pharmacology
2.1.8	Biochemistry
2.2	Post requisites:
2.2.1	Obstetrics and gynecology
2.2.2	Ambulatory therapy
2.2.3	Clinical surgery
2.2.4	Infectious diseases
2.2.5	Epidemiology
2.2.6	Oncology, X-ray therapy
2.2.7	Pediatrics

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)
GCC-1: ability to abstract thinking, analysis, synthesis
PC-1: ability and readiness to apply care bundle aiming to: preserve and strengthen health; promote healthy lifestyle; prevent the occurrence and/or spread of diseases, to conduct their early detection, uncovering causation and progression; eliminate adverse health effects of habitat factors

PC-4: ability and readiness to apply biofeedback methods, medico-statistical data collection and analysis of public health records

PC-17: ability to apply basic management principles in public health care and medical organizations

PC-18: readiness to assess medical care quality based on medical and statistical parameters

GPC-4: ability and readiness to realize the ethical and deontological principles in professional activity

As a result of mastering the discipline, the student must:

3.1	Know:
3.1.1	the basics of the legislation of the Russian Federation on the protection of public health, the main regulatory and technical documents;
3.1.2	the basic principles of management and organization of medical care for the population;
3.1.3	fundamentals of legislation on the sanitary and epidemiological well-being of the population, the main official documents regulating the anti-epidemiological service of the population in case of infectious and parasitic diseases;
3.1.4	regulatory documents on the prevention of nosocomial infections, the legal basis of the state policy in the field of immunoprophylaxis;
3.1.5	social insurance and social security, the basics of the organization of insurance medicine in the Russian Federation, the comparative characteristics of health systems in the world;
3.1.6	financing of the health care system; planning, financing health facilities;
3.1.7	organization of medical control over the state of public health, issues of disability examination and medical and legal assistance to the population;
3.1.8	method of calculating indicators of medical statistics; bases of application of the statistical method in medical research, the use of statistical indicators in assessing the health status of the population and the activities of medical organizations;
3.1.9	maintenance of standard accounting and reporting medical records in medical organizations;
3.1.10	organization of work of junior and nursing staff in medical organizations;
3.1.11	indicators of public health, factors shaping human health;
3.1.12	basis of preventive medicine, organization of preventive measures aimed at improving the health of the population;
3.1.13	health education methods;
3.1.14	the basics of the legislation of the Russian Federation on the protection of public health, the main regulatory and technical documents;
3.1.15	the basic principles of management and organization of medical care to the population;
3.1.16	The basics of legislation on the sanitary and epidemiological welfare of the population, the main official documents regulating the anti-epidemiological service of the population in case of infectious and parasitic diseases;
3.1.17	regulatory documents on the prevention of nosocomial infections, the legal basis of the state policy in the field of immunoprophylaxis;
3.1.18	social insurance and social security, the basics of the organization of insurance medicine in the Russian Federation, the comparative characteristics of health systems in the world;
3.1.19	financing of the health care system; planning, financing health facilities;
3.1.20	organization of medical control over the state of public health, issues of disability examination and medical and legal assistance to the population;
3.1.21	method of calculating indicators of medical statistics; bases of application of the statistical method in medical research, the use of statistical indicators in assessing the health status of the population and the activities of medical organizations;
3.1.22	maintenance of standard accounting and reporting medical records in medical organizations; -organization of work of junior and nursing staff in medical organizations;
3.1.23	indicators of public health, factors shaping human health;
3.1.24	The basis of preventive medicine, the organization of preventive measures aimed at improving the health of the population; health education methods;
3.1.25	the basics of organizing medical (outpatient and inpatient) care for various groups of the population, the principles of clinical examination of the population, the rehabilitation of patients, the basics of organizing medical care for athletes;

3.1.26	duties of outpatient clinic doctors; present-day diagnostic capabilities of an outpatient clinic; emergency aid;
3.1.27	indications for planned hospital admission;
3.1.28	obstetrics and gynecology aid, diagnostics of gynecological diseases, pregnancy, maternity care, childbirth delivery;
3.1.29	features of work with patients with HIV infection.
3.2	Be able to:
3.2.1	use acquired knowledge of public health and health care in the study of other medical disciplines;
3.2.2	plan, analyze and evaluate the quality of medical care, the state of public health and the influence of environmental and industrial factors on it;
3.2.3	participate in the organization and provision of treatment-and-prophylactic and sanitary and anti-epidemic assistance to the population, taking into account its social and professional (including professional sports activities) and age-sex structure;
3.2.4	assess the social factors affecting the patient's physical and psychological health: cultural, ethnic, religious, individual, family, social risk factors (unemployment, abuse, illness and death of relatives, etc.);
3.2.5	use methods of primary and secondary prevention (based on evidence-based medicine) in therapeutic activity, establish cause-and-effect relationships of changes in health status from exposure to environmental factors;
3.2.6	conduct primary and secondary prophylaxis of the most common diseases requiring therapeutic or surgical treatment with the population of the attached site, take preventive measures to increase the body's resistance to adverse environmental factors using various methods of physical exercise and sports, develop resistance to the cold, promote a healthy lifestyle.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics /Class type	Term / Academic	Academic hours	Competences	Literature	Notes
	Section 1. Public Health					
1.1	Theoretical foundations of public health and health care organization. Methods of studying and evaluating public health and health care /Lecture/	A	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.2	Incidence of diseases in the population as a leading indicator of public health. Types of morbidity. Methods for studying morbidity. International	A	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.3	Classification of Diseases, The most important noncommunicable and infectious diseases as a medical and social problem /Lecture/	A	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.4	Analysis of theoretical concepts of population. Demographic projections, demographic policy: concept, main directions in various countries /Lecture/	A	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.5	Medical and social aspects of demographic processes. Fertility, mortality, life expectancy of the population /Lecture/	A	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	

1.6	The current state and trends of disability of the population. Child disability, factors affecting it /Lecture/	A	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
1.7	Current problems of disease prevention. Sanitary and epidemiological well-being of the population /Lecture/	A	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
1.8	Lifestyle: definition, basic elements, impact on public health. Promotion and formation of a healthy lifestyle /Lecture/	A	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
1.9	Socio-economic factors and their impact on public health /Practical class/	A	5	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
1.10	The study and assessment of the health of the population (individual, group and public) /Practical class/	A	5	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
1.11	Fundamentals of medical statistics. Calculation of statistical indicators. Estimation of the reliability of differences. Correlation. Regression /Practical class/	A	5	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
1.12	Medical and social aspects of demographic processes. Birth rate, mortality, infant Mortality /Practical class/	A	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10

1.13	Morbidity as the leading indicator of public health. Accounting and reporting documentation used to collect and analyze information on public	A	5	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
1.14	health /Practical class/ The most important noninfectious and infectious diseases as a medical and social problem. Analysis of morbidity with hazardous work conditions /Practical class/	A	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10

1.15	Disability as a medical and social problem, current state (causes, methods of study, sources of information, rehabilitation) /Practical class/	A	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.16	Modern problems of disease prevention. Prevention of children's disability. Strategies of the disease prevention /Practical class/	A	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.17	Promotion and formation of a healthy lifestyle. The main elements, impact on public health /Practical class/	A	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.18	Principles of the organization of health care in Russia. International experience /Practical class/	A	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.19	The legal framework of the health care system in the Russian Federation /Practical class/	A	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.20	Calculation and analysis of health indicators. Relative values /Self-study/	A	8	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.21	Calculation of averages. Evaluation of the reliability of differences in statistical values /Self-study/	A	8	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.22	Calculation of correlation coefficients. Calculation of standardization index /Self-study/	A	8	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.23	Calculation of indicators and analysis of incidence with hazardous work conditions /Self-study/	A	8	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.24	Content generation for work on the promotion of a healthy lifestyle /Self-study/	A	8	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	

1.25	International cooperation in the field of health care. World Health Organization. /Self-study/	A	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.26	Control work /Control /	A	0	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
1.27	Credit	A	0	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
	Section 2. Organization of health care and health economics.					
2.1	Modern health systems in the world. Principles of the organization of health care in Russia /Lecture/	B	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
2.2	Regulatory support of the health care system in the Russian Federation /Lecture/	B	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
2.3	Regulatory support of the health care system in the Russian Federation /Lecture/	B	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
2.4	Methodological approaches to problems of ensuring quality of medical care /Lecture/	B	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
2.5	Methodological approaches to problems of ensuring quality of medical care /Lecture/	B	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
2.6	The organization of obligatory medical insurance in the Russian Federation /Lecture/	B	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	

2.7	Economy, management and planning of health care /Lecture/	B	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.8	Organization of primary medical aid in the Russian Federation /Practical class/	B	2	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.9	Organization and assessment of activity of outpatient health facilities. Organization of inpatient medical care /Practical class/	B	3	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.10	Organization and assessment of activity of outpatient health facilities. Organization of inpatient medical care /Practical class/	B	6	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.11	Organization and assessment of activity of outpatient health facilities. Organization of inpatient medical care /Practical class/	B	6	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.12	System of maternal and child welfare support. Organization of the obstetric gynecologic care /Practical class/	B	6	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.13	System of maternal and child welfare support. Organization of the obstetric gynecologic care /Practical class/	B	4	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.14	Organization of the pediatric health care. Features of the organization of health care for women and children in rural areas. /Practical class/ /	B	3	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.15	Quality control of medical care. Quality assurance. Rules and standards. /Practical class/	B	6	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10
2.16	Economy, planning and financing of health care /Practical class/	B	6	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10

2.17	Compulsory health insurance /Practical class/	B	6	GCC-1 PC-1 PC-4 PC-17 PC-18 GPC-4	L1.1 L 1.2 L 1.3 L 1.4 L 1.5 L 2.1 L 2.2 L 2.3 L 2.4 L 3.1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10	
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Foreign Language (Russian Language in the Professional Field) Syllabus

1. COURSE OBJECTIVES	
1.1	The main aim of the course "Foreign language in the professional field (Russian language)" is to develop and improve professional and communicative skills of medical students from foreign countries, including linguistic, socio-cultural, strategic, discursive, speech, information and communication and others. These basic components ensure the achievement of the required level of professional communication in Russian language, willingness and ability to solve professional and communicative tasks in the professional activity, compliance with social norms and relationships.
1.2	

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	
GPC-2:	Ability to be ready for oral and written communication in Russian and Foreign languages in order to solve the problems connected to the professional activity
PC-1:	Ability and readiness to implement a set of measures which aim is to preserve and to make health stronger. These measures include the formation of a healthy lifestyle, prevention of the occurrence and (or) spread of diseases, their early examination, identification of the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health
2. COURSE OVERVIEW	
Course code (in curriculum):	B1.O.02
2.1	Assumed background:
2.1.1	The student should master a vocabulary of at least 2300 lexical units, develop skills and abilities in all types of speech activities (speaking, listening, writing, reading) used in various social, everyday, socio-cultural and educational situations. Students should master the bulk of semantic-syntactic constructions of the Russian language, linguistic, speech and communication material that allows to communicate with native Russian speakers. Language level is A1-A2
2.1.2	The students are able to communicate with people, to get to know someone, to introduce oneself or to represent another person, say hello, say goodbye, address someone, thank, apologize, respond to gratitude and apologies, congratulate,

	ask to repeat, ask again, express a wish; advice, proposal, invitation, agreement or disagreement, refusal, permission or prohibition, promise, uncertainty; to express their attitude: evaluate a person, object, fact, action, event.
2.2	Post-requisite courses and practice:
2.2.1	Professional Practice in Obtaining Nursing Assistance Professional Skills and Experience
2.2.2	Educational Practice in Research (primary research skills)
2.2.3	Professional practice, assistant diagnostician (uzist)
2.2.4	Professional Practice, Physician Assistant
2.2.5	Professional Practice, Surgeon Assistant
2.2.6	Professional Practice, Obstetrician and Gynecologist Assistant
2.2.7	Preparation for State Final Examination

By the end of the course students must:

3.1	Know :
3.1.1	functional styles to choose accordingly in different conditions of communication;
3.1.2	methods of demonstrating results of academic activity in the state language and a foreign language
3.1.3	
3.1.4	phonetic, lexical, grammatical and stylistic phenomena of the Russian language
3.2	Be able to :
3.2.1	analyze and summarize the information obtained during the study;
3.2.2	
3.2.3	implement effective speech communication as a part of educational, research and professional activities
3.2.4	follow communication norms adopted in scientific environment
3.2.5	
3.2.6	work with the special literature in the Russian language, Russian-language information resources, technology and modern computer translation programs.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics /Class type	Term / Academic	Academic hours	Competences	Literature	Interactive
	Section 1. Term 5					

1.1	Revision /Practical/	5	4	GPC-2 PC-1	L 1.1 L 1.2L 2.1 L 2.2 L 2.3 E1	
1.2	Revision /Self-study/	5	6	GPC-2 PC-1	L 1.1 L 1.2L 2.1 L 2.2 L 2.3	
1.3	Structure of an object /Practical/	5	6	GPC-2 PC-1	L 1.1 L 1.2L 2.1 L 2.2 L 2.3	
1.4	Structure of an object /Self-study/	5	8	PC-1	L 1.1 L 1.2L 2.1 L 2.2 L 2.3	
1.5	Form of an object /Practical/	5	7	PC-1	L 1.1 L 1.2L 2.1 L 2.2 L 2.3	

1.6	Form of an object /Self-study/	5	6	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
1.7	Functions of an object /Practical/	5	7	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
1.8	Functions of an object /Self-study/	5	6	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
1.9	Properties of an object /Practical/	5	4	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
1.10	Properties of an object /Self-study/	5	8	PC-1	L 1.1 L 1.2 L 2.1	
1.11	Description of process /Practical/	5	4	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
1.12	Description of process /Self-study/	5	6	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
1.13	The Test /Контр.раб./	5	0	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
Section 2. Term 6						
2.1	Science. Scientific methods of learning /Practical/	6	4	GPC-2 PC-1	L 1.1 L 1.2 L 2.1 E1	
2.2	Science. Scientific methods of learning /Self-study/	6	5	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
2.3	Chemistry /Practical/	6	3	GPC-2 PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
2.4	Chemistry /Self-study/	6	5	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
2.5	Atomic-molecular theory. /Practical/	6	5	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
2.6	Atomic-molecular theory. Atoms and molecules existence proof /Self-study/	6	5	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	

2.7	The law of conservation of mass and energy /Practical/	6	4	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
2.8	The law of conservation of mass and energy /Self-study/	6	5	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
2.9	The Test /Контр.раб./	6	0	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
2.10	Credit /Зачёт/	6	0	PC-1	L 1.1 L 1.2 L 2.1 L 2.2 L 2.3	
Section 3. Term 7						
3.1	Periodic law. The history of discovery Base concepts in chemistry /Practical/	7	6	GPC-2 PC-1	L 1.1 L 1.2 L 2.1 E1	

3.2	Periodic law. The history of discovery Base concepts in chemistry /Self-study/	7	3	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
3.3	Evolution of chemical knowledge /Practical/	7	7	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
3.4	Evolution of chemical knowledge /Self-study/	7	3	PC-1	L 1.1 L 1.2 L 2.1	
3.5	Scale of chemical industry /Practical/	7	7	PC-1	L 1.1 L 1.2 L 2.1	
3.6	Scale of chemical industry /Self-study/	7	3	PC-1	L 1.1 L 1.2 L 2.1	
3.7	Patient registration /Practical/	7	7	PC-1	L 1.1 L 1.2 L 2.1	
3.8	Patient registration /Self-study/	7	3	PC-1	L 1.1 L 1.2 L 2.1	
3.9	Cardiovascular diseases /Practical/	7	7	PC-1	L 1.1 L 1.2 L 2.1	
3.10	Cardiovascular diseases /Self-study/	7	4	PC-1	L 1.1 L 1.2 L 2.1	
3.11	Respiratory diseases /Practical/	7	7	PC-1	L 1.1 L 1.2 L 2.1	
3.12	Respiratory diseases /Self-study/	7	4	PC-1	L 1.1 L 1.2 L 2.1	
3.13	Diseases of the digestive system /Practical/	7	7	PC-1	L 1.1 L 1.2 L 2.1	
3.14	Diseases of the digestive system /Self-study/	7	4	PC-1	L 1.1 L 1.2 L 2.1	
3.15	Test /Контр.раб./ /Practical/	7	0	PC-1	L 1.1 L 1.2 L 2.1	
Section 4. Term 8						
4.1	Liver diseases /Пр/	8	10	GPC-2 PC-1	L 1.1 L 1.2 L 2.1 E1	
4.2	Liver diseases /Ср/	8	6	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
4.3	Hepatobiliary diseases /Пр/	8	10	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
4.4	Hepatobiliary diseases /Ср/	8	4	PC-1	L 1.1 L 1.2 L 2.1	
4.5	Urinary diseases /Пр/	8	10	PC-1	L 1.1 L 1.2 L 2.1	
4.6	Urinary diseases /Ср/	8	6	PC-1	L 1.1 L 1.2 L 2.1	
4.7	Patient's passport data /Пр/	8	10	PC-1	L 1.1 L 1.2 L 2.1	
4.8	Patient's passport data /Ср/	8	4	PC-1	L 1.1 L 1.2 L 2.1	
4.9	Revision /Пр/	8	8	PC-1	L 1.1 L 1.2 L 2.1	
4.10	Revision /Ср/	8	4	PC-1	L 1.1 L 1.2 L 2.1	
4.11	Test /Контр.раб./	8	0	PC-1	L 1.1 L 1.2 L 2.1	
4.12	Credit /Зачёт/	8	0	PC-1	L 1.1 L 1.2 L 2.1 E1	
Section 5. Term 9						

5.1	Patient clinical record /Practical/	9	5	GPC-2 PC-1	L 1.1 L 1.2 L 2.1 E1	
5.2	Patient clinical record /Self-study/	9	6	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
5.3	Patient complaints /Practical/	9	6	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
5.4	Patient complaints /Self-study/	9	7	PC-1	L 1.1 L 1.2 L 2.1	
5.5	Patient's life history /Practical/	9	5	PC-1	L 1.1 L 1.2 L 2.1	
5.6	Patient's life history /Self-study/	9	7	PC-1	L 1.1 L 1.2 L 2.1	
5.7	Test /Контр.раб./	9	0	PC-1	L 1.1 L 1.2 L 2.1 E1	
	Section 6. Term 10		6	PC-1		
6.1	Objective health condition of the patient /Practical/	10	5	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
6.2	Objective health condition of the patient /Self-study/	10	6	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
6.3	Provisional diagnosis /Practical/	10	6	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
6.4	Provisional diagnosis /Self-study/	10	7	PC-1	L 1.1 L 1.2 L 2.1	
6.5	Revision /Practical/	10	5	PC-1	L 1.1 L 1.2 L 2.1	
6.6	Revision /Self-study/	10	7	PC-1	L 1.1 L 1.2 L 2.1	
6.7	Тест /Контр.раб./	10	0	PC-1	L 1.1 L 1.2 L 2.1	
6.8	Credit /Зачёт/	10	0	PC-1	L 1.1 L 1.2 L 2.1 E1	
	Section 7. Term 11					
7.1	Medical education /Practical/	11	4	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
7.2	Medical education /Self-study/	11	5	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
7.3	Medical staff /Practical/	11	4	GPC-2 PC-1	L 1.1 L 1.2 L 2.1	
7.4	Medical staff /Self-study/	11	5	PC-1	L 1.1 L 1.2 L 2.1	
7.5	Medical practitioners (choosing a speciality) /Practical/	11	4	PC-1	L 1.1 L 1.2 L 2.1	
7.6	Medical practitioners (choosing a speciality) /Self-study/	11	5	PC-1	L 1.1 L 1.2 L 2.1	
7.7	Treatment (medical, surgical and therapies) /Practical/	11	4	PC-1	L 1.1 L 1.2 L 2.1	
7.8	Treatment (medical, surgical and therapies) /Self-study/	11	5	PC-1	L 1.1 L 1.2 L 2.1	
7.9	Test /Контр.раб./	11	0	GPC-2 PC-1	L 1.1 L 1.2 L 2.1 E1	
	Section 8. Term 12					
8.1	Basic investigations /Practical/	12	4	PC-1	L 1.1 L 1.2 L 2.1	
8.2	Basic investigations /Self-study/	12	5	PC-1	L 1.1 L 1.2 L 2.1 E1	
8.3	Laboratory tests /Practical/	12	4	PC-1	L 1.1 L 1.2 L 2.1	

8.4	Laboratory tests /Self-study/	12	5	PC-1	L 1.1 L 1.2 L 2.1	
8.5	Endoscopy and X-ray/CT /Practical/	12	4	PC-1	L 1.1 L 1.2 L 2.1	
8.6	Endoscopy and X-ray/CT /Self-study/	12	5	PC-1	L 1.1 L 1.2 L 2.1	
8.7	MRI, ultrasound and ECG /Self-study/	12	5	PC-1	L 1.1 L 1.2 L 2.1	
8.8	MRI, ultrasound and ECG /Practical/	12	4	PC-1	L 1.1 L 1.2 L 2.1	
8.9	Test /Контр.раб./	12	0	GPC-2 PC-1	L 1.1 L 1.2 L 2.1 E1	
8.10	/Зачёт/ Credit	12	0	GPC-2 PC-1	L 1.1 L 1.2 L 2.1 E1	

Traumatology, orthopedics

1. GOALS OF DISCIPLINE MASTERING

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| 1.1 | The main goal of teaching traumatology and orthopedics is to train students in modern provisions of the theoretical and practical sections of this branch of medicine. Studying the etiology, pathogenesis of orthopedic diseases, their diagnosis, as well as determining tactics for the management and treatment of patients with orthopedic diseases and injuries. |
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2. PLACE OF DISCIPLINE IN THE STRUCTURE OF PLO

Cycle (section) OOP:	B1.B
2.1 Requirements for preliminary preparation of the student:	
2.1.1	Clinical pathological anatomy
2.1.2	Clinical pathophysiology
2.1.3	Anatomy
2.1.4	Topographic anatomy and operative surgery
2.1.5	General surgery, radiation diagnostics
2.1.6	Clinical anatomy
2.1.7	Histology, embryology, cytology
2.1.8	Normal physiology
2.1.9	Pathological anatomy
2.1.10	Pathophysiology
2.2 Disciplines and practices for which mastering a given discipline (module) is necessary as a prerequisite:	
2.2.1	Medical rehabilitation
2.2.2	Anesthesiology, resuscitation, intensive care
2.2.3	Hospital surgery, pediatric surgery
2.2.4	Emergency Medicine

3. STUDENT COMPETENCIES FORMED AS A RESULT OF MASTERING A DISCIPLINE (MODULE)

OC-1: ability for abstract thinking, analysis, synthesis

GPC-9: the ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems

PC-5: readiness to collect and analyze the patient's complaints, his medical history, examination results, laboratory, instrumental, pathological-anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease

PC-6: the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision

PC-8: ability to determine tactics for managing patients with various nosological forms

PC-9: readiness to manage and treat patients with various nosological forms in an outpatient setting and in a day hospital setting

As a result of mastering the discipline, the student must

3.1 Know:	
3.1.1	- About the specifics of the subject and the objectives of the discipline of traumatology, orthopedics;
3.1.2	- About the role, place and connection with other sciences in the system of medical disciplines;
3.1.3	- The main historical stages in the development of traumatology and orthopedics;
3.1.4	- On the prospects for the development of science and new directions in the study of traumatology and orthopedics;
3.1.5	- Basic concepts used in traumatology and orthopedics;
3.1.6	- General morphofunctional, physiological conditions and pathological processes in the human body, conditions and individual diseases of the musculoskeletal system;
3.1.7	- Examination of a patient with damage or disease of the musculoskeletal system.
3.1.8	- The role of the mechanism of injury in the occurrence of various injuries;
3.1.9	- Typical mechanisms of damage in case of road traffic injury, fall from height, collision with a car.
3.1.10	- Purposeful collection and analysis of the patient's complaints, his medical history, examination results, laboratory, instrumental, pathological-anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease;
3.1.11	- Basic and additional examination methods, laboratory and instrumental diagnostics;
3.1.12	- Modern methods for assessing the condition of tissues and functions of the musculoskeletal system, necessary for making a diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision;
3.1.13	- Algorithm for diagnosing emergency conditions;
3.1.14	- Classification, etiology, pathogenesis, clinical picture, methods for diagnosing diseases of bones and joints, basic principles of radiation examination;
3.1.15	- Causes of iatrogenic complications and errors in the treatment of diseases of bones and joints and ways to prevent them
3.1.16	- Indications for the use of treatment methods, taking into account etiologic and pathogenetic factors;
3.1.17	Tactics of management and treatment of patients with traumatological and orthopedic diseases
3.1.18	- Medicines used at each stage of treatment of diseases.
3.2 Be able to:	
3.2.1	- Use acquired knowledge in pathophysiology, clinical pathophysiology when studying other biomedical and clinical disciplines;
3.2.2	- Correctly interpret and apply the basic concepts of pathophysiology, clinical pathophysiology;
3.2.3	- Analyze pathological processes and individual diseases of the musculoskeletal system;
3.2.4	- Conduct clinical and pathogenetic parallels of leading pathological syndromes;
3.2.5	- Conduct differential diagnosis between pathological conditions based on drawing up pathogenesis diagrams;
3.2.6	- Justify the pathogenetic approach to the treatment of the pathological process (disease);
3.2.7	- Examine a patient with damage or disease of the musculoskeletal system;

3.2.8	- Conduct targeted collection of complaints and medical history;
3.2.9	- Investigate peripheral blood circulation and innervation of the limb;
3.2.10	- Make a diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision based on data from basic and additional research methods;
3.2.11	- Conduct basic and additional research methods for diseases of bones and joints to clarify the diagnosis.
3.2.12	- Interview the patient and his relatives, identify complaints, life history, medical history;
3.2.13	- Draw up a treatment plan for patients with orthopedic diseases, taking into account existing somatic diseases;
3.2.14	- Interview the patient and his relatives, identify complaints, life history, medical history, identify general and specific signs of the disease, especially in cases requiring emergency care or intensive care;
3.2.15	- Assess the severity of the patient's condition and take the necessary measures to bring the patient out of this condition, determine the volume and sequence of resuscitation measures and provide the necessary urgent first aid;
3.2.16	- Determine the need for special research methods, interpret their data;
3.2.17	- Develop a plan for preparing the patient for emergency or planned surgery, determine the degree of disruption of homeostasis and prepare all functional systems of the patient's body for surgery;
3.2.18	- Determine indications and contraindications for surgical treatment of purulent bone pathology;

3.2.19	- Assess the impact of drug therapy prescribed for diseases, taking into account the course of somatic diseases;
3.2.20	- Develop a scheme for postoperative patient management and prevention of postoperative complications;
3.2.21	- Carry out the necessary rehabilitation measures for the patient;
3.2.22	and carry out medical examination of the patient with an assessment of its effectiveness;
3.2.23	- Prepare the necessary medical documentation.

4. STRUCTURE AND CONTENT OF THE DISCIPLINE (MODULE)

Activity code	Name of sections and topics /type of lesson/	Semester/Course	Hours	Competitions	Literature	Note
	Section 1. Injuries are a social problem. Orthopedics. History of development. General principles and methods of treating injuries and diseases of the musculoskeletal					
1.1	systemInjuries are a social problem. Orthopedics. History of development. General principles and methods of treatment of injuries and diseases of the	8	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
	musculoskeletal system /Lek/ Section 2. Methods for examining patients in traumatology and orthopedics Methods for examining patients in traumatology and orthopedics					
2.1	Methods for examining patients in traumatology and orthopedics /Lek/	8	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	

2.2	Methods for examining patients in traumatology and orthopedics /Etc/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
2.3	Methods for examining patients in traumatology and orthopedics /Wed/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 3. Bone tissue regeneration. Ununited fractures and false joints. Methods of their treatment.					
3.1	Bone tissue regeneration. Ununited fractures and false joints. Methods of their treatment. /Lek/	8	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.2 L2.5 E1 E2 E3 E4	
3.2	Bone tissue regeneration. Ununited fractures and false joints. Methods of their treatment. /Etc/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.2 L2.5 E1 E2 E3 E4	
3.3	Bone tissue regeneration. Ununited fractures and false joints. Methods of their treatment. /Wed/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.2 L2.5 E1 E2 E3 E4	
	Section 4. Plaster technique, types of plaster casts.					
4.1	Plaster technique, types of plaster casts. /Etc/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.2 L1.3L2.2 L2.5 E1 E2 E3 E4	

4.2	Plaster technique, types of plaster casts. /Wed/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.2 L1.3L2.5 E1 E2 E3 E4	
	Section 5. Classification, clinic, diagnosis of bone fractures. Patient supervision.					
5.1	Classification, clinic, diagnosis of bone fractures. Patient supervision. /Etc/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
5.2	Classification, clinic, diagnosis of bone fractures. /Wed/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
	Section 6. Damage to the collarbone, shoulder girdle, shoulder, traumatic dislocation of the shoulder.					
6.1	Damage to the collarbone, shoulder girdle, shoulder, traumatic dislocation of the shoulder /Lek/	8	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
6.2	Damage to the collarbone, shoulder girdle, shoulder, traumatic dislocation of the shoulder. /Etc/	8	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
	Section 7. Conservative and surgical methods of treatment of the upper shoulder girdle (clavicle, scapula). Chest injury					

7.1	Conservative and surgical methods of treatment of the upper shoulder girdle (clavicle, scapula). /Etc/	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
7.2	Damage to the chest /Pr/	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
7.3	Conservative and surgical methods of treatment of the upper shoulder girdle (clavicle, scapula). /Wed/	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
7.4	Damage to the chest / Wed /	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 8. Fractures of the bones of the upper limb					
8.1	Fractures of the bones of the upper limb /Lek/	8	2	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	E1 E2 E3 E4	
8.2	Fractures of the bones of the upper limb /Pr/	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.2L2.5 E1 E2 E3 E4	
8.3	Fractures of the bones of the upper limb / Wed /	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.2L2.5 E1 E2 E3 E4	
	Section 9. Spinal injuries. Fractures of the pelvic bones.					

9.1	Spinal injuries. Fractures of the pelvic bones. /Lek/	8	2	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.3L2.5 E1 E2 E3 E4	
9.2	Spinal injuries. Fractures of the pelvic bones. /Etc/	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.3L2.5 E1 E2 E3 E4	
9.3	Spinal injuries. Fractures of the pelvic bones. /Wed/	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.3L2.5 E1 E2 E3 E4	
	Section 10. Fractures of the lower leg bones. Transosseous compression-distraction osteosynthesis according to Ilizarov in the treatment of					
10.1	fractures Fractures of the leg bones. Transosseous compression-distraction osteosynthesis according to Ilizarov in the treatment of fractures /Lek/	8	2	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
10.2	Fractures of the leg bones. Transosseous compression-distraction osteosynthesis according to Ilizarov in the treatment of fractures /Pr/	8	4	OC-1 GPC-9 PC-5 PC-6 PC-8 PC-9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	

10.3	Fractures of the leg bones. Transosseous compression-distraction osteosynthesis according to Ilizarov in the treatment of fractures /Cp/	8	4	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 11. Fractures of the lower limb. Damage to the knee joint, fractures of the shin bones. Diagnosis, treatment.					
11.1	Fractures of the lower limb. Damage to the knee joint, fractures of the shin bones. Diagnosis, treatment. /Lek/	8	2	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
11.2	Fractures of the lower limb. Damage to the knee joint, fractures of the shin bones. Diagnosis, treatment. /Etc/	8	4	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
11.3	Fractures of the lower limb. Damage to the knee joint, fractures of the shin bones. Diagnosis, treatment. /Wed/	8	4	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 12. Final lesson (test)					
12.1	Final lesson (test) /Pr/ Control work	8	4	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	Control work
12.2	CREDIT	8	4	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	Oral questioning and situational tasks
	Section 13. Traumatic brain injury. Peripheral nerve damage					
13.1	Traumatic brain injury. Damage to peripheral nerves /Lek/	9	2	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
13.2	Traumatic brain injury. Damage to peripheral nerves /Pr/	9	2	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	

13.3	Traumatic brain injury. Peripheral nerve damage /CP/	9	2	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
13.4	Traumatic brain injury. Damage to peripheral nerves /Control work./	9	3	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	E1 E2 E3 E4	
	Section 14. Polytrauma					
14.1	Polytrauma /Lek/	9	2	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
14.2	Polytrauma /Pr/	9	4	OC-1 GPC-9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	

14.3	Polytrauma /Wed/	9	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
14.4	Polytrauma /Control work/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	E1 E2 E3 E4	
	Section 15. Damage to the ankle and foot, ankle fractures. Treatment and rehabilitation of trauma patients in the clinic					
15.1	Damage to the ankle and foot, ankle fractures. Treatment and rehabilitation of trauma patients in the clinic /Pr/	9	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
15.2	Damage to the ankle and foot, ankle fractures. Treatment and rehabilitation of trauma patients in the clinic /Wed/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.5 E1 E2 E3 E4	
15.3	Damage to the ankle and foot, ankle fractures. Treatment and rehabilitation of trauma patients in the clinic /Controller/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	E1 E2 E3 E4	
	Section 16. Degenerative-dystrophic diseases of the musculoskeletal system. Deforming arthrosis of large joints.					
16.1	Degenerative-dystrophic diseases of the musculoskeletal system. Deforming arthrosis of large joints. /Lek/	9	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.3 L2.5 E1 E2 E3 E4	
16.2	Degenerative-dystrophic diseases of the musculoskeletal system. Deforming arthrosis of large joints. /Etc/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.3 L2.5 E1 E2 E3 E4	
16.3	Degenerative-dystrophic diseases of the musculoskeletal system. Deforming arthrosis of large joints. /Wed/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3L2.3 L2.5 E1 E2 E3 E4	
16.4	Degenerative-dystrophic diseases of the musculoskeletal system. Deforming arthrosis of large joints. /Control work./	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	E1 E2 E3 E4	
	Section 17. Bone tumors.					
17.1	Bone tumors. /Wed/	9	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.3 E1 E2 E3 E4	
17.2	Bone tumors. /Control work./	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	E1 E2 E3 E4	

17.3	Bone tumors. /Etc/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.3 E1 E2 E3 E4	
	Section 18. Treatment and rehabilitation of traumatological and orthopedic patients on an outpatient basis. Therapeutic exercise, physiotherapy					
18.1	Treatment and rehabilitation of traumatological and orthopedic patients on an outpatient basis. Therapeutic exercise, physiotherapy /Etc/	9	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3 E1 E2 E3 E4	
18.2	Treatment and rehabilitation of traumatological and orthopedic patients on an outpatient basis. Therapeutic exercise, physiotherapy /Wed/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.3 E1 E2 E3 E4	
	Section 19. Osteochondrosis of the spine.					
19.1	Osteocondritis of the spine. /Lek/	9	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
19.2	Osteocondritis of the spine. /Etc/	9	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
19.3	Osteocondritis of the spine. /Wed/	9	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
19.4	Osteocondritis of the spine. /Control work./	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 20. Congenital hip dislocation					
20.1	Congenital dislocation of the hip /Lek/	9	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
20.2	Congenital dislocation of the hip /Pr/	9	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
20.3	Congenital dislocation of the hip /Cp/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 21. Congenital clubfoot, torticollis					
21.1	Congenital clubfoot, torticollis /Pr/	9	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	

21.2	Congenital clubfoot, torticollis / Wed /	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 22. Hereditary systemic diseases of the skeleton. Dysplasia, chondrodystrophy. Treatment					
22.1	Hereditary systemic diseases of the skeleton. Dysplasia, chondrodystrophy. Treatment /Lek/	9	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
22.2	Hereditary systemic diseases of the skeleton. Dysplasia, chondrodystrophy. Treatment /Pr/	9	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
22.3	Hereditary systemic diseases of the skeleton. Dysplasia, chondrodystrophy. Treatment /Wed/	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 23. Osteochondropathies (Legg-Calvé-Perthes disease, Osgood-Schlatter disease, Scheuermannau disease) and others					
23.1	Osteochondropathies (Legg-Calvé-Perthes disease, Osgood-Schlatter disease, Scheuermannau disease) and others /Pr/	9	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
23.2	Osteochondropathies (Legg-Calvé-Perthes disease, Osgood-Schlatter disease, Scheuermannau disease) and others / Wed /	9	3	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
	Section 24. Scoliotic disease.					
24.1	Scoliotic disease. /Lek/	9	2	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	
24.2	Scoliotic disease. /Etc/	9	4	OC-1 GPC- 9 PC-5 PC- 6 PC-8 PC- 9	L1.1 L1.2 L1.3 L2.1 L2.2L2.5 L3.1L3.2 E1 E2 E3 E4	

Oncogynec Perinatologgy

1. COURSE OBJECTIVES

1.1	The course aims at acquainting students with modern methods of diagnosing, treating and managing patients in the field of perinatology.
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2. COURSE OVERVIEW

Course code (in curriculum)	B1.V.DV.02
2.1 Assumed background knowledge:	
2.1.1	Chemistry
2.1.2	Latin
2.1.3	Biology

2.1.4	Philosophy
2.1.5	Histology, Embryology, Cytology
2.1.6	Bioethics
2.1.7	Anatomy
2.1.8	Hominal Physiology
2.1.9	Biochemistry
2.1.10	Microbiology, Virology
2.1.11	Immunology
2.1.12	Pharmacology
2.1.13	Pathologic Anatomy
2.1.14	Clinical Pathologic Anatomy
2.1.15	General Surgery, X-ray Diagnostics
2.1.16	Internal Diseases Propaedeutics, X-Ray Diagnostics
2.1.17	Public health and health care, Economy of Public Health
2.2	Post requisites:
2.2.1	Obstetrics and Gynecology

3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)

PC-6: the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision

PC-5: readiness to collect and analyze the patient's complaints, his medical history, examination results, laboratory, instrumental, pathological-anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease

PC-8: ability to determine tactics for managing patients with various nosological forms

By the end of the course students must:

3.1	Know
3.1.1	rules of collecting complaints, anamnesis; in obstetrics and perinatology;
3.1.2	principles of treatment and emergency care for complications associated with pregnancy, childbirth and postpartum period.
3.1.3	industry standards for the volume of examination and treatment in obstetrics and perinatology complications associated with pregnancy, childbirth and postpartum period.
3.1.4	modern methods of clinical, laboratory and instrumental diagnostics of diseases;
3.1.5	
3.2	Be able to:
3.2.1	collect history; conduct a survey of the patient, conduct a physical examination of the patient, outline the volume of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result, to appoint (if indicated) laboratory and instrumental and other studies to clarify the diagnosis. If necessary, take material for laboratory (cytological, bacteriological, bacterioscopic examination), conduct an ultrasound examination of the small pelvis; refer a patient to specialists; interpret the results of the examination, make a preliminary diagnosis, formulate a clinical diagnosis, prescribe treatment, monitor its effectiveness, be able to promote a healthy lifestyle and prevent diseases; determine the indications for hospitalization and organize it; to keep medical records of various nature in medical organizations.
3.2.2	collect anamnesis ; conduct a survey of the patient, conduct a physical examination of the patient, interpret the results of the examination, make a preliminary diagnosis, formulate a clinical diagnosis, identify symptoms and syndromes requiring emergency care and provide it, use the necessary medical equipment and instruments (gynecological examination instruments, ultrasound and others
3.2.3	manage a physiological pregnancy; assist with childbirth

3.2.4	interpret the results of the survey, make a preliminary diagnosis, outline the volume of additional studies to clarify the diagnosis;
3.2.5	formulate a clinical diagnosis;
3.2.6	fill in the case record, write out prescriptions.

4. STRUCTURE AND CONTENTS

Class Code	Part and topic /class type/	Term / Ac. year	Academic hours	Competences	Literature	Interactive
	Section 1. Management of pregnant women in the antenatal period and identification of high-risk pregnancy groups					
1.1	Management of pregnant women in the antenatal period and identification of high -risk pregnancy groups /Lec/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.2	Ultrasound diagnostics during pregnancy. Dopplerometry in obstetrics. Invasive methods for assessing the state of the fetus /Lec/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.3	Antenatal cardiology /Lec/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.4	Invasive methods for assessing the state of the fetus during pregnancy /Lec/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	

1.5	Intrauterine growth retardation /Lec/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.6	Premature labour /Lec/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.7	Management of post term pregnancy /Lec/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.8	Modern approaches to the management of immunoincompatible pregnancy /Lec/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.9	Management of pregnant women in the antenatal period and identification of high risk pregnancy groups /Pr/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.10	Management of pregnant women in the antenatal period and identification of high risk pregnancy groups /Ss/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.11	Ultrasound diagnostics during pregnancy. Dopplerometry in obstetrics. Invasive methods for assessing the state of the fetus /Pr/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.12	Ultrasound diagnostics during pregnancy. Dopplerometry in obstetrics. Invasive methods for assessing the state of the fetus /Ss/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.13	Antenatal cardiology /Pr/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.14	Antenatal cardiology /Ss/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.15	Invasive methods for assessing the state of the fetus during pregnancy /Pr/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.16	Invasive methods for assessing the state of the fetus during pregnancy /Ss/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.17	Intrauterine growth retardation /Pr/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.18	Intrauterine growth retardation /Ss/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.19	Premature labour /Pr/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.20	Premature labour /Ss/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.21	Management of post term pregnancy /Pr/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.22	Management of post term pregnancy /Ss/	10	2	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.23	Modern approaches to the management of immunoincompatible pregnancy /Pr/	10	4	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.24	Modern approaches to the management of immunoincompatible pregnancy /Ss/	10	8	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	
1.25	Control work /Control /	10	0	PC-5 PC-6 PC-8	L1.1L2.1 E1 E2 E3 E4 E5 E6	