

I approve

The President of Scientific Council,

Rector

N. Kh. Saribekyan

«15» May 2018



THE UNIVERSITY OF TRADITIONAL MEDICINE
THE SPECIFICATION OF CONTINUOUS AND INTEGRATED
EDUCATIONAL PROGRAM

SPECIALIZATION

091201.00.7 - "GENERAL MEDICINE"

QUALIFICATION

DOCTOR

Yerevan 2018

The Specification of the Professional Education Program /PEP/ is designed for applicants, students, academic staff, stakeholders and employers.

It provides a brief overview of the key features of the program, including the expected learning outcomes, detailed information on learning, teaching and evaluation methods, learning outcomes, and content of each module which expects a student and who can achieve it, if he/she fully takes the offered advantage from the educational opportunities.

PROFESSIONAL EDUCATIONAL PROGRAM OF
091201.00.7 - "GENERAL MEDICINE" SPECIALIZATION

1. General provisions

- The name and the number of profession of the educational program; *091201.00.7 - "General Medicine"*
- National Qualifications Framework; *Level 6, Level 7 of the National Qualifications Framework*
- The period of mastering of PEP ; *6 years*
- Number of credits; *360 /three hundred sixty/*
- Awarded Qualifications; *Doctor*
- Higher education institution; *The University of Traditional Medicine /UTM/*
- The Faculty of Educational program implementer; *General Medicine*
- The form of learning program; *Current education*
- Educational activities are implemented in; *State Language of RA*
For foreign students in English
- The educational program is licensed and accredited; *License- N 0002*
Accreditation - N 127

1.1. Introduction:

The Professional Education Program /PEP/ of 091201.00.7 "General Medicine" curriculum implemented by UTM is a system of documents, which was developed and approved by the Academic Council of the University on 15th of May 2018 /protocol N 11/, according to the labor market requirements and educational standards of RA, the educational criteria of the National Qualifications Framework /NQF/, as well as the exemplary educational programs of similar foreign universities have been taken into consideration.

The PEP regulates the objectives of the educational process, the expected results, the content and the terms and technologies of its implementation, quality assurance of graduates and includes the curriculum, working plans of classes, lectures, and subjects (modules) and other materials, as well as the calendar curriculum for conducting educational and production practices and methodological materials ensuring the implementation of relevant educational technologies.

1.2. The normative documents for developing the PEP of 091201.00.7 "General Medicine" curriculum.

The normative legal basis for developing the PEP is:

- RA Law on Education,
- RA Law on Higher and Postgraduate Professional Education,
- Requirements for the Professional Education Quality Assurance (PEQA) education criterion,
- State educational standards of higher professional education of the RA.

1.3. General description of the Professional Education Program.

1.3.1. The Purpose of the Professional Education Program /Mission/.

The purpose of the PEP is;

- To prepare doctors who are aware of their role in physician-patient relationship with a high level of morality and who are knowledgeable, according to the requirements of the medical education, medical and healthcare labor market, who
 - ✓ will have fundamental and systematic modern knowledge on medical, diagnostic and preventive activities,
 - ✓ will be able to use theoretical and practical knowledge during practical activities that have gained during the study demonstrating clinical flexibility,
- to create fundamental and practical conditions for the training of specialists, based on international standards of medical education, on national traditions, which will ensure the competitiveness of the university students in domestic and foreign labor markets.

The issue of the PEP is;

- to prepare doctors who will be required and will be competitive for domestic and international labor market, will have knowledge and abilities to provide continuous education and develop their own potential realizing the full responsibility and depth of professional activity,
- the acquired basic knowledge and skills will serve as a basis for further education in clinical residency or postgraduate studies.

1.3.2 The structure and description of the PEP

The official duration of the PEP is 6 years, 302 weeks, including theoretical teaching, practical and laboratory classes, examinations, study and practice practices and holidays. The volume of the educational program is 60 credits per 1 academic year.

The student's educational load is 45 hours per week including classroom /30 hours/ and outsourced work /independent 15 hours/.

The program ends with passing final attestation exams. Final attestation is permitted for full-time students. In case of passing the attestation exams, the graduate is awarded doctor's qualification.

The PEP of UTM's 091201.00.7- "General Medicine" consists of the following modules and educational units:

a/ Theoretical courses

- I. Humanities, social-natural sciences curriculum-29 credits,
- II. Natural, mathematical and medical-biological trainings-112 credits,
- III. Preventive medicine courses-13 credits,

b/ Clinical and professional courses

- IV. Therapeutic diseases trainings-86 credits,
- V. Surgical trainings-66 credits,
- VI. Traditional medicine courses-39 credits,
Educational-Production Practice-12 credits

Additional courses

The **final qualifying exam** (3 credits), which is the final phase of the educational program, and which goal is to test theoretical and practical knowledge, skills and abilities according to the educational program's end results.

1.3.3 The requirements for an applicant

- The applicant must have a state sample certificate, secondary, vocational or primary vocational education.
- The applicants are eligible to apply for two of the mentioned three competition exams "Biology", "Physics" and "Chemistry" and "Armenian Language" as a non-competition subject.
- Admission is made by the admission procedure of higher educational institutions of the Republic of Armenia approved by the Government of the Republic of Armenia.

***2. The professional activity description of the graduate
who completed the PEP of 091201.00.7- " General Medicine"***

2.1. The scope of the professional activity of a graduate who completed the PEP includes;

provision of health care for citizens in accordance with the healthcare industry standards and requirements.

2.2. The objects of professional activity of a graduate who completed the PEP are;

- natural persons /hereinafter patients/,
- population,
- the integrity of the resources and technologies needed to create conditions for the protection of citizens' health.

2.3. The types of professional activity of a graduate who mastered PEP are;

- medical,
- organizational-management,
- research,

2.4. The issues of the graduate professional activity

The graduate who completed the PEP should address the following issues related to professional activity:

▪ ***medical activity***

- the prevention of diseases in the population through preventive and anti-epidemic activities,
- preventive medical examination of dispensary, dispensing control,
- analyzing the medical and statistical information on the health indicators of different age and sex groups of the population,
- diagnosis of diseases and pathological conditions,
- immediate diagnosis of the condition,
- pregnancy diagnosis,
- temporary disability and other types of medical examinations,
- display of first medical aid /medical and sanitary/ under ambulatory and stationary conditions,
- primary health care services in case of sudden acute diseases and conditions, which do not threaten the patient's life and do not require immediate medical attention,
- participation in situations requiring urgent medical intervention,
- medical assistance in emergency situations and participation in medical evacuation,
- participation in medical rehabilitation and resort treatment,
- to formulate motives for maintaining and strengthening the health of people and others within the population,
- to teach patients the basic hygienic activities of the health, which contribute to the prevention of diseases and health promotion.

▪ ***organizational-management activities***

- medical assistance to medical organizations and their structural subdivisions using basic principles of the organization,

- creation of working conditions for medical staff working activities and favorable conditions for patients to stay in medical organizations,
 - medical documentation maintenance in medical institutions,
 - organization of medical examination,
 - participation in the assessment of the quality of medical care provided to patients,
 - maintaining basic information security requirements,
- ***research activities***
 - analysis of scientific literature and official statistical review, presentation of statistical analysis results to the public,
 - participation in the solution of scientific-research and scientific-practical issues in healthcare, according to diagnosis, treatment, medical rehabilitation and prevention.

**3. The professional activity description of as a result of mastering
091201.00.7- "General Medicine" PEP**

The results of the PEP's mastering are determined by the quality acquired by graduate, that is his/her ability to apply knowledge, capacities and personal qualities according to professional activity issues.

As a result of the PEP's mastering the graduate should acquire general, general professional and professional endpoints.

The graduate, who mastered the PEP of "General Medicine" should master the following general endpoints;

GE	General endpoints
GE-1	Has abstract thinking, ability to combine and analyze methods of humanities, natural sciences, biomedical and clinical sciences during professional and social activities.
GE-2	Ability to apply philosophical knowledge in world outlook formation.
GE-3	Ability to decipher the basic stages and regularities of the historical development of society for the formation of civil position.
GE-4	Ability to work in non-standard situations, take social and moral responsibility for decisions made.
GE-5	Be prepared for self-development, self-education, application of creative ability, public speaking, carry out discussions and debates, edit professional content texts.
GE-6	Ability to use physical education methods and means, ensuring full social and professional activity.

GE-7	Provide first aid and protection methods under emergency conditions.
GE-8	Ability to demonstrate readiness to work in the collective, to tolerate social, ethnic, religious and cultural differences.

The PEP's mastering graduate should have the following general professional endpoints;

GPE	General Professional Endpoints
GPE-1	Based on the basic requirements of information security ability to solve the main problems of professional activity, using informational, bibliographic resources, medical-biological terminology, information and communication technologies.
GPE-2	Ability to communicate in native and foreign languages- oral and written while engaging in professional activities.
GPE-3	Ability to apply moral and psychological, deontological principles, and the basics of legal knowledge in professional activities.
GPE-4	Be able and be ready to analyze the results of own activities to prevent professional errors.
GPE-5	Organization of work in medical institutions and maintenance of medical records.
GPE-6	Ability to apply basic concepts and knowledge of physicochemical, mathematical and other natural sciences when dealing with professional issues.
GPE-7	Ability to apply medicinal, traditional medicine and other non-medical remedies and to combine them during medical care when dealing with professional issues.
GPE-8	Ability to evaluate the morpho-functional state of the human body, physiological and pathological processes when dealing with professional issues.
GPE-9	Ability to provide primary preventive care /medical-sanitary/ and organize patients' care.
GPE-10	Ability to apply medical instruments and equipment designed for medical care.

The PEP's mastering graduate should have the following professional endpoints

Medical activity

PE	Professional Endpoints
PE-1	Be able and be willing to carry out a complex of measures aimed for maintaining and strengthening health, including the formation of a healthy lifestyle, disease occurrence and prevention of spreading, early diagnosis, detection of their origin and development conditions and causes, as well as the elimination of harmful environmental implications affecting adult and adolescent health.
PE-2	Be able and be willing to conduct medical preventive examinations, dispensing control.
PE-3	Be able and be willing to conduct anti-epidemic activities, organization of population protection, especially in dangerous infections, in case of radiation deterioration, natural disasters and other emergencies.

PE-4	Ability to analyze statistical information on population health indicators from the socio-hygienic viewpoint.
PE-5	Ability to listen to and analyze patient's complaints, anamnesis data, the results of examination, laboratory, instrumental, pathological-anatomical, traditional and other studies, for detecting or denying the disease.
PE-6	Ability to diagnose the major pathological conditions, symptoms and syndromes of the disease in complying with the international statistical classification of diseases and health related issues. Make a distinctive diagnosis.
PE-7	Ability to conduct a temporary disability examination, to take part in medical-social and forensic medical examinations and to record human biological death.
PE-8	Ability to identify the tactics of patients running with different nosologies, determine the treatment of medicinal, traditional medicine, indications and contraindications for reflex-therapy, phytotherapy, homeopathy and other non-medicinal remedies.
PE-9	Ability to conduct the treatment of patients with different nosologies under ambulatory conditions and in-patient care integrating contemporary and traditional medicine healing methods.
PE-10	Ability to provide medical assistance during sudden acute maladies, acute conditions, chronic illnesses aggravate, which do not have life-threatening and do not require urgent medical care.
PE-11	Ability to provide the required immediate medical intervention.
PE-12	Ability to conduct physiological pregnancy and accept childbirth.
PE-13	Ability to provide medical care in emergency situations and to participate in medical evacuation.
PE-14	Ability to determine the use of natural healing impulses, drugs, non-medical therapy, traditional medicine and other treatments with those patients who have the need for medical rehabilitation and sanatorium treatment.
PE-15	Ability to teach middle and junior medical staff, basic sanitary and hygienic measures for the recovery of patients and their relatives, self-control skills of basic physiological indicators that contribute to health protection and prevention and disease prevention.
PE-16	Ability to enforce enlightenment activities, to lead a healthy lifestyle and eliminate risk factors.

Organizational and administrative activities

PE -17	Ability to apply the basic principles of organization and management of public health in medical organizations and their structural subdivisions.
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PE -18	Ability to participate in the assessment of the quality of medical care based on the main medical and statistical indicators.
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Research activities

PE -19	Ability to analyze on the basis of evidence-based medicine and to present medical information to the public.
PE -20	Ability to participate in scientific and medical research, applying the domestic and foreign experience about the subject.
PE -21	Ability to participate in the introduction of new methods aimed at maintaining the health of the population.

4. The documents that adjust the content and organization of the educational process during the implementation of 091201.00.7- "General Medicine" PEP.

The PEP is a system of documents, which is updated taking into consideration health, science, culture, economic, technique, technological and social spheres.

The content of the Professional Education Program's documents representing the organization and implementation of the educational process;

- 4.1. The formed endpoints according to subjects
- 4.2. Curriculum
- 4.3. Annual calendar study schedule
- 4.4. Working plans of the subjects
- 4.5. Student-productive practice programs

During the implementation of the PEP the following types of educational and production practices are envisaged

▪ Nurse's assistant	2 credits	2 weeks	II course	4 th semester
▪ Manipulation nurse's assistant	2 credits	2 weeks	III course	6 th semester
▪ Doctor's assistant /Therapy/	2 credits	2 weeks	IV course	8 th semester
▪ Doctor's assistant /Surgery /	2 credits	2 weeks	IV course	8 th semester
▪ Doctor's assistant /Obstetrics and Gynecology /	2 credits	2 weeks	V course	10 th semester
▪ Doctor's assistant /Ambulance/	2 credits	2 weeks	V course	10 th semester

The educational-training practice is conducted in the appropriate clinics, in the form of duty or cycles, as well as in structural divisions of the university.

- 4.6. The final state attestation.

This includes the preparation and submission of state exams.

Final state attestation exams

1. Internal diseases /Acupuncture, Phytotherapy /
2. Surgical diseases
3. Obstetrics and gynecology

5. Learning and teaching approaches

Teaching and learning are conducted in group format, and the workshop, practical work and practice involve small groups of people. Teaching methods encourage a student-centered approach at all the stages of learning, encouraging the student's individual development, proportional growth of professional capacities, professional information acquisition on his/her autonomy as well as individual analytical skills and critical thinking. Learning and teaching approaches provide a gradual contribution to knowledge, according to the complexity, as well as the continued development of skills and capacities, according to the basic requirements of professional development.

The lecture includes lectures, workshops, practical /individual/ workshops, consulting and practical training.

Lectures- An opportunity to present a sequence of extended and consistent facts,

Seminars-Group and individual creativity, discussion and reflection, critical thinking development,

Practical exercises-An opportunity to analyze and discuss experiments and topics, documents and materials,

Supported individual-study, by the usage of current materials - support for individual research and development,

Individual consulting -Providing more advanced, profound analysis and support for self-study.

6. The criteria and methods of assessing quality of appropriateness of the PEP

The evaluation methodology used within the scope of the "General Medicine" PEP is based on the objectivity and measurability of students' knowledge, skills and abilities with proving, guiding, and encouraging functions. The student's knowledge, abilities, capabilities, autonomy and activity are evaluated. The evaluation procedure considers the initial /initial/ state and final /output/ outcome for an objective view of student's professional growth.

The methods of assessment are:

-written test, intermediate written and/or oral exam, independent projects, oral quizzes and interviews,

- mark and grade rating are used in the assessment (100 points) according to the components selected for each item's evaluation.

See the details of the assessment in the order of "The students' knowledge assessment at UTM".

The assessment of learners' mastering quality includes current control of progressive intermediate and state final attestation.

The means and technologies of evaluation systems are given in each subject's work plans in the form of tests and exams.

The basic resources of the assessment system include control questions, test questions, situational issues, essay topics and other control measures, which allow us to rate the shaped degree of capacity of the learner.

During the training, the following types of control are used;

- Oral question
- Written works.

Each of the types of progressive current control is distinguished according to the capacities' detection method;

- During a dialogue between a lecturer and a student,
- During the creation and verification of written materials.

The oral questioning allows to evaluate the student's horizons and knowledge, the ability to logically construct the answer, the possession of oral speech and other skills. Written answers allow the lecturer to save time, to check the assessment justification and to reduce the degree of subjective approach based on student's individual abilities.

Each type of control is carried out with the help of certain forms, which can be the same for some types of control, for example, oral and written exams, as well as specific. Accordingly, some forms of control may combine several of its types (e.g. the subject may include both verbal and written test). Control forms are essay, test, test work, inquiry, exam.

- Learners are allowed to final state attestation after a comprehensive study of the subject matter of the curriculum provided by the curriculum.
- Intermediate final exam of state attestation is carried out in stages and includes the following mandatory attestation exams:
 - checking the level of appropriateness of practical skills,
 - checking the level of theoretical readiness through a test exam,
 - oral exam of the skills assessment of solving specific professional issues.

Students who successfully complete the final attestation are awarded a diploma about completing his/her specialization. Students who have received inadequate certification or have missed the program, receive a certificate with a sample defined by the university.

7. The terms of implementation of the PEP

7.1. Providing specialist training to the personnel

The implementation of the PEP in training of the specialist is ensured by the scientific-pedagogical staff, who, as a rule, have basic education that corresponds to the profile of the subject matter, that are systematically engaged in scientific and (or) scientific-methodological activities. The share of lecturers that have an academic title and /or a scientific degree is not less than 50% of the total number of lecturers providing the educational process with the curriculum.

The lecturers of professional educational program have basic education and/or scientific degree corresponding to the subject of the subject being taught.

At least 52 percent of lecturers that provide professional educational program training process have academic degrees or academic titles.

A highly-qualified specialist in the relevant professional area may be involved in overall management of professional theoretical and practical training content.

7.2. Methodological and informational support of the learning process.

The PEP of the specialist training program provides with educational-methodological documents and materials designed for all the courses of the general educational program /GEP/ of training courses (modules).

Students' outsourcing activities provide methodological support and justification of the time required for their implementation.

Each student has access to the electronic library system which contains publications related to the main subjects studied.

7.3. Material and technical support of the educational process.

UTM which implements specialist training of the PEP has a material and technical base, which provides implementation of all types, subject and interdisciplinary training, laboratory, practical and research activities for students which are designed according to the curriculum of the university and comply with current sanitary and fire regulations and norms.

The University has the following logistical support for the preparation of a specialist for the implementation of the PEP.

Electronic materials are used in the university and there are at least 18 computers connected to the Internet for the educational process. Students are provided with computer labs during their education.

8. The characteristics of the socio-cultural environment ensuring the development of university students' overall educational abilities.

The Organization of educational work is reflected in the University's regulations and orders, in educational plans of the University, in the annual work plans of chairs and lecturers.

Internal educational acts of educational work are commands, regulations, programs, instructions, service papers and other documents that regulate educational activities.

The plan of educational work includes traditional events, taking into consideration the age and psychological peculiarities of the students, youth policy priorities, the historic memorable dates of the country and the university, provides a variety of events aimed at students' civic and patriotic, cultural-moral, professional-labor education, science orientation, scientific-methodological support, students' social protection, improving the material-technical base of educational work.

The Student Council also implements considerable work.

During the implementation of educational work, the university staff uses various workshops, individual work with students, activities of student scientific society, implementation of professional programs and projects, innovative activities, cooperation with social partners at urban, regional and interregional levels.

The university has extensive use of learning opportunities for educational purposes. Particularly, issues of moral, humanitarian and patriotic upbringing, as well as issues related to psychology, culturology, Armenian language and culture of speech are included in humanitarian subjects' working curricula. The curriculum contains a cultural component. During the study of the subjects of natural and clinical cycles, the achievements of domestic scientists are widely mentioned.

Physical education of the students is aimed at creating a healthy lifestyle, participation in various levels (regional or national) of sports competitions and more.

The University has a very effective organizational structure, which ensures the development of general cultural (social and personal) qualities of graduates. There is a considerable potential for the organization and improvement of educational work, the ability to search for new opportunities within the framework of the structure.

9. Further Learning Opportunities

The doctor who has mastered 091201.00.7 "General Medicine" PEP, is ready to continue his/her studies in residency and post-graduate studies (theoretical chairs) with relevant professional programs.

I approve

The President of Scientific Council,

Rector

N. Kh. Saribekyan

«15» May 2018



**The PEP /continuous and integrated/ of 091201.00.7 "General Medicine" specialty
by years, semesters and courses /subject modules/**

I year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
History of Armenia	1	2	History of Armenian	2	2
Armenian language and terminology	1	2	Armenian language	2	2
Physical training	1	-	Physical training	2	-
Latin	1	2	Latin	2	2
Foreign language	1	3	Foreign language	2	2
History of Medicine	1	3			
Mathematics, Medical Informatics	1	3	Mathematics, Medical Informatics	2	2
			Medical physics	2	3
General Chemistry	1	4			
			Bioorganic Chemistry	2	4
Biology	1	5	Biology	2	4
Human Anatomy	1	4	Human Anatomy	2	4
			Histology, embryology, cytology	2	5
Morphology and physiology of herbs	1	2			

II year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
General psychology	3	3	Medical Psychology	4	3
Philosophy	3	3	Physical training	4	-
Physical training	3	-	Biochemistry	4	3
Biochemistry	3	5			
Human Anatomy	3	4	Topographical Anatomy and Operative Surgery	4	4
Histology, embryology, cytology	3	4			
Normal Physiology	3	5	Normal Physiology	4	4
			Microbiology	4	5
Pharmacognosy	3	2	Pharmacognosy	4	2
			Pathological anatomy	4	5
Hygiene	3	4	Hygiene	4	2
Educational-Production Practice				4	2
III year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
Topographical Anatomy and Operative Surgery	5	3			
Microbiology, virology, immunology	5	4			
Pharmacology	5	4	Pharmacology	6	4
Pathological anatomy	5	4			
Pathological Physiology	5	4	Pathological Physiology	6	5
Propedeutics of internal diseases	5	6	Propedeutics of internal diseases	6	4
Radial Diagnosis	5	3			
			Neurology	6	4
			Homeopathy	6	3
General Surgery	5	2	General Surgery	6	4
			Traumatology and Orthopedics	6	4
Educational-Production Practice				6	2

IV year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
			Epidemiology	8	3
Internal Diseases	7	6	Internal Diseases	8	4
Dermatology	7	4			
Neurology	7	3			
			Infectious Diseases	8	3
Acupuncture	7	4	Acupuncture	8	3
			Phytotherapy	8	2
Homeopathy	7	2			
			Irydodiagnosics	8	4
Surgical diseases	7	4	Surgical diseases	8	3
Traumatology and Orthopedics	7	3			
Obstetrics and gynecology	7	4	Obstetrics and gynecology	8	4
Educational-Production Practice				8	4

V year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
			Public Health and Health Care	10	2
Internal Diseases	9	3	Internal Diseases	10	3
			Phthisiatria	10	4
Infectious Diseases	9	4			
			Pediatrics	10	4
Acupuncture	9	3	Acupuncture	10	3
Phytotherapy	9	3	Phytotherapy	10	3
Surgical diseases	9	2	Surgical diseases	10	2
Urology	9	2			
			Oncology	10	3
Ophthalmologic Diseases	9	4			
Nose, throat, ear disease	9	4			
Medicine of Emergency Situations	9	3			
Obstetrics and gynecology	9	2	Obstetrics and gynecology	10	2
Epidemiology				10	4

VI year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
Public Health and Health Care	11	2			
Internal Diseases	11	4	Internal Diseases	12	3
Endocrinology	11	2			
Pediatrics	11	5			
			Immunology, clinical immunology	12	2
			Psychiatry	12	3
Physiotherapy	11	2			
			Polyclinic (Outpatient) Therapy	12	3
			Clinical Pharmacology	12	3
Forensic Medicine	11	4			
Acupuncture	11	3			
Phytotherapy	11	3			
			Manual Therapy	12	3
Surgical diseases, pediatric surgery	11	2	Surgical diseases, pediatric surgery	12	3
			Anesthesia and resuscitation	12	4
Obstetrics and gynecology	11	3	Obstetrics and gynecology	12	2
			Sectional course	12	1
			Final attestation	12	3

I approve

The President of Scientific Council

Rector

N. Kh. Saribekyan

«15» May 2018



**The curriculum of the PEP /continuous and integrated/ of 091201.00.7 "General Medicine"
by years and semesters**

I year										
Autumn Semester /1 st Term/ 17 weeks										
Module's name	Subject credits allocated for the semester	Hours per semester	Hours							
			Classroom	Lectures	Practical classes	Outsourcing	Individual work under supervisor	Individual work	Exam or test	
1	2	3	4	5	6	7	8	9	10	11
1.	History of Armenia	2	60	34	22	12	26	9	17	te.
2.	Armenian Language	2	60	34		34	26	9	17	te.
3.	Physical training	-	68	34			34			
4.	Latin	2	60	34		34	26	9	17	te.
5.	Foreign language	3	90	51		51	39	14	25	te.
6.	History of Medicine	3	90	51	34	17	39	14	25	te.
7.	Mathematics, Medical Informatics	3	90	51	18	33	39	13	26	te.
8.	General Chemistry	4	120	68	34	34	52	18	34	ex.
9.	Biology	5	150	85	22	63	65	22	43	ex.
10.	Human Anatomy	4	120	68	18	50	52	18	34	ex.
11.	Morphology and Physiology of Herbs	2	60	34	18	16	26	9	17	te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>166</i>	<i>344</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>7/3</i>

Spring Semester /2 nd Term/ 17 weeks										
1	2	3	4	5	6	7	8	9	10	11
1.	History of Armenia	2	60	34	24	10	26	9	17	te.
2.	Armenian language	2	60	34		34	26	9	17	te.
3.	Physical training	-	68	34			34			
4.	Latin	2	60	34		34	26	9	17	te.
5.	Foreign Language	2	60	34		34	26	9	17	te.
6.	Medical physics	3	90	51	24	27	39	13	26	te.
7.	Mathematics, Medical Informatics	2	60	34	16	18	26	9	17	te.
8.	Bioorganic Chemistry	4	120	68	34	34	52	18	34	ex.
9.	Biology	4	120	68	18	50	52	18	34	ex.
10.	Human anatomy	4	120	68	20	48	52	18	34	ex.
11.	Histology, embryology, cytology	5	150	85	18	67	65	23	42	ex.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>154</i>	<i>356</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>6/4</i>
II year										
Autumn Semester /3 rd term/ 17 weeks										
1	2	3	4	5	6	7	8	9	10	11
1.	General psychology	3	90	51	34	17	39	14	25	te.
2.	Philosophy	3	90	51	34	17	39	13	26	te.
3.	Physical training	-	68	34			34			
4.	Biochemistry	5	150	85	30	55	65	23	42	te.
5.	Human Anatomy	4	120	68	20	48	52	18	34	ex.
6.	Histology, embryology, cytology	4	120	68	18	50	52	18	34	ex.
7.	Normal Physiology	5	150	85	26	59	65	62	43	ex.
8.	Pharmacognosy	2	60	34	17	17	26	9	17	te.
9.	Hygiene	4	120	68	30	38	52	18	34	te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>209</i>	<i>301</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>5/3</i>

Spring Semester /4 th term/ 17 weeks										
1	2	3	4	5	6	7	8	9	10	11
1.	Medical Psychology	3	90	68	34	17	22	6	16	te.
2.	Physical training	-	68	34			34			
3.	Biochemistry	3	90	51	18	33	39	14	25	ex.
4.	Topographical Anatomy and Operative Surgery	4	120	68	32	36	52	18	34	ex.
5.	Normal Physiology	4	120	68	22	46	52	18	34	ex.
6.	Microbiology	5	150	85	26	59	65	23	42	te.
7.	Pharmacognosy	2	60	34	17	17	26	9	17	te.
8.	Pathological anatomy	5	150	85	30	55	65	22	43	te.
9.	Hygiene	2	60	51	18	33	9	2	7	te.
10.	Educational Production Practice	2	60				60			te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>215</i>	<i>295</i>	<i>390</i>	<i>113</i>	<i>217</i>	<i>6/3</i>
III year										
Autumn Semester /5 th term/ 17 weeks										
1	2	3	4	5	6	7	8	9	10	11
1.	Topographical Anatomy and Operative Surgery	3	90	51	20	31	39	14	25	ex.
2.	Microbiology, virology, immunology	4	120	68	22	46	52	18	34	ex.
3.	Pharmacology	4	120	68	22	46	52	18	34	te.
4.	Pathological anatomy	4	120	68	26	42	52	18	34	ex.
5.	Pathological physiology	4	120	68	26	42	52	18	34	te.
6.	Propedeutics of internal diseases	6	180	102	42	60	78	27	51	te.
7.	Radial diagnosis	3	90	51	20	31	39	14	25	te.
8.	General surgery	2	60	34	18	16	26	9	17	te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>196</i>	<i>314</i>	<i>390</i>	<i>136</i>	<i>254</i>	<i>5/3</i>

Spring Semester /6 th term/ 17 weeks										
1	2	3	4	5	6	7	8	9	10	11
1.	Pharmacology	4	120	85	26	59	35	10	25	ex.
2.	Pathological physiology	5	150	85	30	55	65	23	42	ex.
3.	Propedeutics of internal diseases	4	120	85	38	47	35	5	30	ex.
4.	Neurology	4	120	68	22	46	52	18	34	te.
5.	Homeopathy	3	90	51	20	31	39	14	25	te.
6.	General surgery	4	120	68	22	46	52	18	34	ex.
7.	Traumatology and Orthopedics	4	120	68	24	44	52	18	34	te.
8.	Educational-Production Practice	2	60				60			te.
Total		30	900	510	182	328	390	106	224	4/4
IV year										
Autumn Semester /7 th term/ 17 weeks										
1	2	3	4	5	6	7	8	9	10	11
1.	Internal diseases	6	180	102	34	68	78	27	51	ex.
2.	Dermato-venereal diseases	4	120	68	24	44	52	18	34	te.
3.	Neurology	3	90	51	18	33	39	13	26	ex.
4.	Acupuncture	4	120	68	44	24	52	18	34	te.
5.	Homeopathy	2	60	34	20	14	26	9	17	te.
6.	Surgical diseases, pediatric surgery	4	120	68	30	38	52	18	34	te.
7.	Traumatology and Orthopedics	3	90	51	20	31	39	14	25	ex.
8.	Obstetrics and gynecology	4	120	68	24	44	52	18	34	te.
Total		30	900	510	214	296	390	136	255	5/3
Spring Semester /8 th term/ 17 weeks										
1	2	3	4	5	6	7	8	9	10	11
1.	Epidemiology	3	90	68	24	44	22	4	18	te.
2.	Internal Diseases	4	120	102	34	68	18	8	10	ex.
3.	Infectious Diseases	3	90	51	18	33	39	14	25	te.
4.	Acupuncture	3	90	51	24	27	39	14	25	ex.
5.	Phytotherapy	2	60	34	18	16	26	8	18	te.
6.	Irydodiagnosics	4	120	68	34	34	52	18	34	te.
7.	Surgical diseases	3	90	68	20	48	22	6	16	ex.
8.	Obstetrics and gynecology	4	120	68	22	46	52	18	34	ex.
9.	Educational-Production Practice	4	120				120			te.
Total		30	900	510	194	316	390	90	180	5/4

V year										
Autumn Semester /9 th term/ 17 weeks										
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
1.	Internal Diseases	3	90	51	20	31	39	13	26	ex.
2.	Infectious Diseases	4	120	68	22	46	52	18	34	ex.
3.	Acupuncture	3	90	51	24	27	39	14	25	te.
4.	Phytotherapy	3	90	51	26	25	39	13	26	te.
5.	Surgical diseases	2	60	34	16	18	26	9	17	ex.
6.	Urology	2	60	34	12	22	26	9	17	te.
7.	Ophthalmologic Diseases	4	120	68	24	44	52	18	34	te.
8.	Nose, throat, ear disease	4	120	68	24	44	52	18	34	te.
9.	Medicine of Emergency Situations	3	90	51	24	27	39	14	25	te.
10.	Obstetrics and gynecology	2	60	34	14	20	26	9	17	ex.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>206</i>	<i>304</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>6/4</i>
Spring Semester /10 th term/ 17 weeks										
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
1.	Public Health and Health Care	2	60	51	22	29	9	2	7	te.
2.	Internal diseases	3	90	51	20	31	39	14	25	ex.
3.	Phthisiatria	4	120	85	32	53	35	12	23	te.
4.	Pediatrics	4	120	68	36	32	52	18	34	te.
5.	Acupuncture	3	90	68	24	44	22	8	14	ex.
6.	Phytotherapy	3	90	51	26	25	39	14	25	te.
7.	Surgical diseases	2	60	34	14	20	26	9	17	ex.
8.	Oncology	3	90	68	24	44	22	4	18	te.
9.	Obstetrics and gynecology	2	60	34	14	20	26	9	17	ex.
10.	Educational-Production Practice	4	120				120			te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>212</i>	<i>298</i>	<i>390</i>	<i>90</i>	<i>180</i>	<i>6/4</i>

VI year										
Autumn Semester /11 th term/ 17 weeks										
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
1.	Public health and health care	2	60	34	18	16	26	9	17	te.
2.	Internal diseases	4	120	68	26	42	52	18	34	te.
3.	Endocrinology	2	60	34	14	20	26	9	17	te.
4.	Pediatrics	5	150	85	36	49	65	23	42	ex.
5.	Physiotherapy	2	60	34	16	18	26	9	17	te.
6.	Forensic Medicine	4	120	68	24	44	52	18	34	te.
7.	Acupuncture	3	90	51	22	29	39	14	25	ex.
8.	Phytotherapy	3	90	51	24	27	39	13	26	ex.
9.	Surgical diseases, pediatric surgery	2	60	34	14	20	26	9	17	te.
10.	Obstetrics and gynecology	3	90	51	18	33	39	13	26	te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>212</i>	<i>298</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>7/3</i>
Spring Semester /12 th term/ 17 weeks										
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>
1.	Internal diseases	3	90	68	26	42	22	8	14	ex.
2.	Immunology, clinical immunology	2	60	34	16	18	26	9	17	te.
3.	Psychiatry	3	90	51	24	27	39	14	25	te.
4.	Polyclinic therapy	3	90	51	20	31	39	13	26	te.
5.	Clinical pharmacology	3	90	51	18	33	39	13	26	te.
6.	Manual Therapy	3	90	51	20	31	39	13	26	te.
7.	Surgical diseases, pediatric surgery	3	90	68	20	48	22	8	14	ex.
8.	Anesthesia and resuscitation	4	120	68	24	44	52	18	34	te.
9.	Obstetrics and gynecology	2	60	51	18	33	9	3	6	ex.
10.	Sectional course	1	30	17	4	13	13	5	8	te.
11.	Final attestation	3	90				90			
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>190</i>	<i>320</i>	<i>390</i>	<i>104</i>	<i>196</i>	<i>7/3</i>

❖ The above-mentioned hours are not included in the classes given to the physical training classes.

I approve

The President of Scientific Council

Rector

N. Kh. Saribekyan

«15» May 2018

Appendix



**The formation map of basic modules of endpoints
of the PEP /continuous and integrated/ of 091201.00.7 "General Medicine"**

The Formation of General Endpoints

N		GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8
1.	History of Armenia	x		x					x
2.	Armenian Language	x				x			x
3.	Physical training						x		
4.	Latin	x				x			x
5.	History of Medicine	x		x		x			
6.	General psychology	x			x	x			x
7.	Medical Psychology				x			x	
8.	Philosophy	x	x	x	x	x			x
9.	Foreign language	x				x			x
10.	Medical physics	x				x			
11.	Mathematics, Medical informatics	x				x			
12.	General chemistry	x		x		x		x	
13.	Bioorganic chemistry	x		x		x		x	
14.	Biology	x							
15.	Biochemistry	x				x		x	x
16.	Human anatomy								
17.	Topographical Anatomy and Operative Surgery	x			x			x	x
18.	Histology, embryology, cytology								
19.	Normal Physiology	x				x			x
20.	Microbiology, virology, immunology	x		x	x	x		x	
21.	Pharmacology	x			x	x		x	x
22.	Morphology and physiology of herbs	x				x			
23.	Pharmacognosy	x			x	x		x	x

N		GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8
24.	Pathological anatomy	x				x			x
25.	Pathological Physiology	x				x			
26.	Propaedeutics of Internal Diseases	x			x				x
27.	Internal Diseases	x			x	x		x	x
28.	Endocrinology				x	x		x	
29.	Dermato-venereal diseases								
30.	Radial diagnosis	x			x	x		x	x
31.	Neurology	x							
32.	Phthisiatria	x				x			
33.	Psychiatry				x			x	
34.	Forensic Medicine	x							
35.	Oncology				x	x		x	
36.	Infectious Diseases	x			x	x		x	
37.	Physiotherapy					x			x
38.	Polyclinic (Outpatient) Therapy	x			x	x		x	x
39.	Clinical Pharmacology	x			x				
40.	Acupuncture	x	x		x	x		x	x
41.	Phytotherapy	x	x		x	x		x	x
42.	Homeopathy	x	x		x	x			
43.	Irydodiagnosics	x			x	x			
44.	Manual Therapy					x			x
45.	General Surgery				x			x	
46.	Surgical diseases, pediatric surgery	x			x	x		x	x
47.	Urology				x	x		x	
48.	Traumatology and Orthopedics	x			x	x		x	
49.	Anesthesia and resuscitation								
50.	Ophthalmologic Diseases	x						x	
51.	Nose, throat, ear disease	x			x				
52.	Medicine of Emergency Situations	x			x	x		x	x
53.	Pediatrics	x			x		x	x	
54.	Obstetrics and gynecology	x			x				
55.	Hygiene	x		x		x			
56.	Public Health and Health Care	x				x			
57.	Epidemiology	x		x	x			x	

The Formation of the General Professional Endpoints

N		GPE-1	GPE-2	GPE-3	GPE-4	GPE-5	GPE-6	GPE-7	GPE-8	GPE-9	GPE-10
1.	History of Armenia										
2.	Armenian language	x	x			x					
3.	Physical training										
4.	Latin	x	x	x		x					
5.	History of Medicine	x	x								
6.	General psychology			x	x						
7.	Medical Psychology		x	x	x						
8.	Philosophy			x	x						
9.	Foreign Language	x	x			x					
10.	Medical physics				x		x				x
11.	Mathematics, Medical Informatics	x	x			x	x				
12.	General Chemistry	x	x		x		x	x	x		
13.	Bioorganic Chemistry	x	x		x		x	x	x		
14.	Biology	x	x				x		x		
15.	Biochemistry	x	x				x	x	x		
16.	Human Anatomy	x					x		x		
17.	Topographical Anatomy and Operative Surgery	x			x				x	x	x
18.	Histology, embryology, cytology	x					x		x		
19.	Normal Physiology	x	x	x	x		x		x		
20.	Microbiology, virology, immunology	x			x	x		x	x		
21.	Pharmacology	x	x		x	x		x			
22.	Morphology and physiology of herbs	x			x		x				
23.	Pharmacognosy	x	x		x	x		x			
24.	Pathological anatomy	x		x	x	x			x		
25.	Pathological physiology	x			x		x		x		
26.	Propaedeutics of Internal Diseases		x	x	x	x			x		x
27.	Internal Diseases	x	x		x	x		x	x		
28.	Endocrinology				x				x		
29.	Dermato-venereal diseases							x	x		
30.	Radio-diagnostics	x	x	x	x	x			x		x
31.	Neurology			x				x	x		

N		GPE-1	GPE-2	GPE-3	GPE-4	GPE-5	GPE-6	GPE-7	GPE-8	GPE-9	GPE-10
32.	Phthisiatra	x			x	x		x	x		
33.	Psychiatry		x	x	x			x		x	
34.	Forensic Medicine	x	x	x	x	x	x		x		
35.	Oncology				x				x		
36.	Infectious Diseases	x		x	x	x		x	x	x	
37.	Physiotherapy		x	x	x	x		x			
38.	Polyclinic therapy	x	x	x	x	x		x	x		x
39.	Clinical Pharmacology	x			x	x		x	x		
40.	Acupuncture	x	x	x	x			x	x		
41.	Phytotherapy	x	x	x	x	x		x	x		
42.	Homeopathy	x	x	x	x			x	x		
43.	Irydodiagnosics		x	x	x	x			x		
44.	Manual Therapy			x	x			x	x		
45.	General Surgery				x	x		x	x		x
46.	Surgical diseases, pediatric surgery	x	x	x	x	x	x	x	x	x	x
47.	Urology				x				x		
48.	Traumatology and Orthopedics	x		x	x	x		x	x	x	x
49.	Anesthesia and resuscitation			x	x			x	x	x	
50.	Ophthalmologic Diseases	x			x	x		x	x	x	
51.	Nose, throat, ear disease			x	x	x		x	x		x
52.	Medicine of Emergency Situations	x		x	x		x	x	x	x	x
53.	Pediatrics	x	x	x	x		x	x	x		x
54.	Obstetrics and gynecology			x	x	x		x	x		x
55.	Hygiene	x	x				x		x		
56.	Public Health and Health Care	x	x	x		x					
57.	Epidemiology	x				x					

The Formation of Professional Endpoints

N		PE-1	PE-2	PE-3	PE-4	PE-5	PE-6	PE-7	PE-8	PE-9	PE-10	PE-11	PE-12	PE-13	PE-14	PE-15	PE-16	PE-17	PE-18	PE-19	PE-20	PE-21		
1.	History of Armenia																							
2.	Armenian language																							
3.	Physical training																							
4.	Latin																				x			
5.	History of Medicine																							
6.	General psychology					x			x	x					x		x	x			x	x		
7.	Medical Psychology	x				x	x		x	x	x	x			x									
8.	Philosophy																					x		
9.	Foreign Language																				x			
10.	Medical physics																x				x	x		
11.	Mathematics, Medical Informatics				x		x													x	x	x		
12.	General Chemistry	x		x		x										x	x					x	x	
13.	Bioorganic Chemistry	x		x		x										x	x					x	x	
14.	Biology																							
15.	Biochemistry	x				x	x									x						x		
16.	Human Anatomy																							
17.	Topographical Anatomy and Operative Surgery	x		x						x	x	x										x	x	
18.	Histology, embryology, cytology																							
19.	Normal Physiology	x												x						x				
20.	Microbiology, virology, immunology	x		x		x	x			x	x	x			x	x	x	x				x	x	x
21.	Pharmacology	x		x						x	x	x			x	x						x	x	
22.	Morphology and physiology of herbs	x														x						x	x	
23.	Pharmacognosy	x																					x	x
24.	Pathological anatomy					x	x																x	
25.	Pathological Physiology	x				x	x															x	x	
26.	Propaedeutics of Internal Diseases	x	x			x	x			x	x							x					x	
27.	Internal Diseases	x	x			x	x	x	x	x	x	x					x						x	x
28.	Endocrinology		x			x	x			x													x	
29.	Dermato-venereal diseases					x	x			x	x					x	x	x						
30.	Radio-diagnostics	x	x			x	x			x	x		x											
31.	Neurology	x				x	x			x	x	x												
32.	Phthisiatria	x	x			x	x			x						x							x	
33.	Psychiatry	x	x			x	x			x	x	x	x											
34.	Forensic Medicine	x				x	x	x																
35.	Oncology		x			x	x			x														

N		PF-1	PF-2	PF-3	PF-4	PF-5	PF-6	PF-7	PF-8	PF-9	PF-10	PF-11	PF-12	PF-13	PF-14	PF-15	PF-16	PF-17	PF-18	PF-19	PF-20	PF-21	
36.	Infectious Diseases	x		x		x	x		x	x	x	x					x			x			
37.	Phthisiatry	x							x						x	x	x			x			
38.	Polyclinic therapy	x	x		x	x	x	x	x	x	x	x			x	x	x	x	x	x	x	x	
39.	Clinical Pharmacology					x	x		x	x	x	x			x					x			
40.	Acupuncture	x				x			x	x					x						x	x	
41.	Phytotherapy	x							x	x					x						x	x	
42.	Homeopathy	x				x			x						x						x	x	
43.	Irydodiagnostics	x				x	x		x	x					x						x		
44.	Manual Therapy	x							x	x					x								
45.	General Surgery	x				x	x		x	x	x												
46.	Surgical diseases, pediatric surgery	x	x			x	x	x	x	x	x	x			x								
47.	Urology		x			x	x		x												x		
48.	Traumatology and Orthopedics	x	x			x	x	x	x	x	x	x		x	x	x						x	
49.	Anesthesia and resuscitation					x						x											
50.	Ophthalmologic Diseases	x				x	x		x		x	x					x						
51.	Nose, throat, ear disease		x			x	x	x	x	x	x	x		x							x	x	
52.	Medicine of Emergency Situations	x		x							x	x		x							x	x	
53.	Pediatrics	x	x			x	x		x	x	x	x			x	x	x						
54.	Obstetrics and gynecology					x				x			x		x	x	x					x	
55.	Hygiene	x		x	x										x	x	x				x		
56.	Public Health and Health Care	x	x		x											x	x	x	x				
57.	Epidemiology	x	x	x	x									x							x	x	x

I approve

The President of Scientific Council,

Rector N. Kh. Saribekyan

«15» May 2018



Course Descriptions

of the PEP /continuous and integrated/ of 091201.00.7 "General Medicine"

COURSE'S NAME	HISTORY OF ARMENIA		
COURSE'S TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General Medicine		
DEPARTMENT	General Medicine		
YEAR	I	SEMESTER	I, II
ACADEMIC YEAR	2018-2019		

COMPOSED BY	PhD, Associate Professor Armen E. Khachikyan PhD, Associate Professor Harutyun A. Alexanyan, (external stakeholder)
TELEPHONE	+374 91 50-41-48, +374 91 20 15 05
E-MAIL	haleksanyan@yahoo.com , biant1953@yahoo.com

CHAIR	Humanitarian subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor Armen E. Khachikyan

COURSE'S VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	2	17	2	60	34	22	12	17	9		
	II	2	17	2	60	34	24	10	17	9		+
Total		4	34	4	120	68	46	22	34	18	4	

1. PRECONDITION; *In order to master the course it is necessary;*

- History,
- Social science,
- Geography.

2. SHORT SUMMARY OF THE SUBJECT

"The Armenian History" course includes the history of the Armenian people from ancient times to our days, The course provides students with the opportunity to get acquainted with the history of our country, rich in events and cultural achievements, to recognize the traditions and customs of our people.

1.1.The aim of the subject

To introduce the students to the ancient Armenian millennial history, to show that the Armenian people was one of the main and active participants in the formation of world civilization, and has made some of its contribution to the treasury of universal culture.

1.2.The objective of the subject

- To give the necessary knowledge from the History of Armenian,
- Present the history of the Armenian people by providing a connection with the events and process of the history of the world.

2. EDUCATIONAL OUTCOMES: *At the end of the course the student should:*

Know the main events of Armenian propaganda Armenia and its neighboring countries on the map, the most important figures in Armenian history, cultural achievements in various stages of Armenian society development, the main achievements and values of Armenian civilization.

Be able to distinguish between the stages of development of the Armenian society and the state, to understand the causes and consequences of the most important historical events, to access to sources, to analyze their information and draw conclusions, to express his/her thoughts oral and written form, to bring facts and other evidence, to formulate their own views on historical events and to express them.

Master the most important events in the history of the Armenian people, the chronology of events and cause-and-effect relationships.

5. LITERATURE

1. A. Khachikyan, History of Armenia. A Brief Review, Yerevan, 2010;
2. A. Redgate, The Armenians, New Jersey, 2000;
3. Illustrated History of Europe, edited by Frederic Delouche, London, 2001;
4. R. Hovhannisyan, Armenian People from Ancient to Modern Times, New York, 2004;
5. The Heritage of World Civilizations, Vol. 1-2, New Jersey, 2000.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

COURSE'S NAME	FOREIGN LANGUAGE (ENGLISH)		
COURSE'S TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General Medicine		
DEPARTMENT	General Medicine		
YEAR	I	SEMESTER	I, II
ACADEMIC YEAR	2018-2019		

COMPOSED BY	PhD Tatevik S. Karapetyan (external stakeholder) Lilit A. Muradyan
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CHAIR	Humanitarian subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor Armen E. Khachikyan

COURSE'S VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	3	17	3	90	51		51	25	14		+
	II	2	17	2	60	34		34	17	9		+
Total		5	34	5	150	85	-	85	42	23		

1. PRECONDITION; *In order to master the course it is necessary;*

- Foreign language course at school

2. SHORT SUMMARY OF THE SUBJECT

The course is aimed at shaping humanitarian thinking of future doctors, as a result of which students can distinguish patient behavior and reactions, formulate and reinforce collaborative work with their future colleagues in the medical team, in particular, oral presentations and research work (present and/or publish scientific research results), intercultural awareness and communication (communication with patients).

3. AIM AND OBJECTIVE OF THE SUBJECT

3.1. The aim of the subject

The purpose of the course is to develop the students' oral ability, to deepen grammatical knowledge, to enrich vocabulary, to develop speaking and listening skills, accurate selection and application of professional terms and terminology links, the ability to analyze and reproduce professionally available texts.

3.2. The objectives of the subject

- conduct with students various workshops on English speaking skills, improving the accuracy and clarity of verbal speech,
- to develop the students' ability to listen through thematic audio and video materials,
- to improve reading skills,
- practically to reinforce grammar knowledge.

4. EDUCATIONAL OUTCOMES: *At the end of the course the student should:*

Know at least 4000 vocabulary units, basic conventional molds, parts of speech, members of sentence, syntax of simple and complex sentences.

Be able to translate special medical texts with and without dictionary, to transmit the general content of texts in foreign and native languages, to conduct household conversations, to write personal letters, to make a right speech (verbal, written), following the rules of speech culture, to orientate in in different social-cultural communication situations.

Master English as a means of intercultural communication.

5. LITERATURE

1. Eric H. Glendingg, Ron Howard, Professional English in Use, Medicine, ISBN-13: 978-0521682015, 2009, Cambridge.
2. MacCarter S., Oxford English for Careers: Medicine 1, ISBN: 978-0-19-402300-9, 2011.
3. MacCarter S., Oxford English for Careers: Medicine 2, ISBN: 978-0-19-402300-9, 2011.
4. MáriaGyôrffy, English for Doctors, Schenk Verlag GmbH, Passau 2006, ISBN 3-939337-10-2
5. Murphy, R., Essential Grammar in Use, Cambridge University Press 2015.
6. Roberts R., Clare A., Wilson J. J., New Total English Intermediate. Students' Book, Harlow, Pearson Education Limited, 2011.
7. Sean O. Henderson, Emergency Medicine, ISBN: 1-57059-668-9, Copyright ©2006 Landes Bioscience, Georgetown, Texas, U.S.A.

6. COMPONENTS

POINTS

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

COURSE'S NAME	HISTORY OF MEDICINE		
COURSE'S TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General medicine		
DEPARTMENT	General medicine		
YEAR	I	SEMESTER	I
ACADEMIC YEAR	2018-2019		

COMPOSED BY	Nina Khlghatyan
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CHAIR	Humanitarian subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Tatevik S. Karapetyan

COURSE'S VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures hours	Practice hours	Individual work hours	Consultation by lecturer	Examination	Test
I	I	3	17	3	90	51	34	17	25	14		+
Total		3	17	3	90	51	34	17	25	14		

1. PRECONDITION; <i>In order to master the course it is necessary;</i> Global and Regional History, Anatomy, Biology
2. SHORT SUMMARY OF THE SUBJECT The History of Medicine course examines the stages of the history of medicine, frequently encountered diseases in different eras, peculiarities of medicine development, depending on religious considerations and the region.
3. AIM AND OBJECTIVE OF THE SUBJECT 3.1. The aim of the subject The aim of the subject is to raise the level of students' general and professional knowledge, performing a very important role in the preparation of a future doctor, teaching the history of medicine to help students enter the professional world. 3.2. The objectives of the subject <ul style="list-style-type: none"> ▪ study the history of medicine in all nations of the world during lectures and practical classes from ancient times to the present day, ▪ to learn about the activities of major world medical schools, ▪ to teach moral and ethical principles of the most important doctors-humanists Hippocrates, Galen, Ibn Sinai, Al-Razi, Mkhitar Heratsi, Amirdovlat Amasiatsi and others contributing to the establishment and improvement of moral character of a young doctor.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know the long way of medicine from the primordial to the present, the achievements of the ancient, eastern, antique culture, the Arab world, as well as medieval, revival, new and newest regions of medicine in Armenia, Europe and Russia.

Be able to use academic, scientific, publicly-available literature and the Internet for professional activity.

5. LITERATURE

1. Porter Roy. The Greatest benefit to Mankind. A Medical History of Humanity, New York, London, 1998.
2. Singer Ch., Underwood A. A short History of medicine, Oxford, 1962
3. Hippocrates. Selected books, Moscow, 1936.
4. Iba Sina. The canon of medical science in 5 volumes, Tashkent.
5. Abusaid: The Man of Creation, the examiner's original, Russian Translation and Producer by S. Vardanyan, Yerevan, 1974.
6. Amirdovlat Amasiatsi: An ignorant man, ed. K. Basmajyan, Vienna, 1926.
7. Asar Sebastiansi. Book of medical craftsmanship, ed. D. Karapetian, Yerevan, 1993.
8. History of medicine, textbook / Y. Lisitsin, Moscow, 2015.
9. Grigor Narekatsi. Descriptive of Man's Composition, Examination Original, Prologue and Remarks by Stella Vardanian, Echmiatsin, 2008.
10. History of Medicine in Armenia, textbook, S. Vardanyan, Yerevan, 2000.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

COURSE'S NAME	PHYSICAL TRAINING		
COURSE'S TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General Medicine		
DEPARTMENT	General Medicine		
YEAR	I	SEMESTER	I - IV
ACADEMIC YEAR	2018-2019		

COMPOSED BY	Armen Azaryan
TELEPHONE	-
E-MAIL	-

CHAIR	Humanitarian subjects
CLINICAL BASE	Yerevan State Financial-Economic College
HEAD OF THE CHAIR	PhD, Associate Professor Armen E. Khachikyan

COURSE'S VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	-	17	2	68	34	-	34	34	-		
	II	-	17	2	68	34	-	34	34	-		
II	III	-	17	2	68	34	-	34	34	-		
	IV	-	17	2	68	34	-	34	34	-		
Total		-	68	8	272	136	-	136	136	-		

1. PRECONDITION; *In order to master the course it is necessary;*

-

2. SHORT SUMMARY OF THE SUBJECT

The training consists of Gymnastics, Athletics and Sports Games.

3. AIM OF THE SUBJECT

The aim of the course is to teach the physical development of the student, physical training, training of various sports for health, to teach students a healthy lifestyle, to contribute to the development of multidisciplinary specialists, to deliver skills in the field of physical training and sports in the future workplace.

4. EDUCATIONAL OUTCOMES: *At the end of the course the student should:*

Know the social role and importance of physical education in the development of personality and its professional activities. Fundamentals of physical education and healthy lifestyle.

Master performing a complex of physical exercises, which is needed throughout his life and will improve the health, gain a number of physical qualities-agility, flexibility, strength, endurance.

5. LITERATURE

1. A. Grigoryan, F. Ghazaryan, "Know Yourself", Yerevan, 2000.
2. G. N. Azizyan, H.M. Vanesyan "Physical Training", Yerevan, 2002.
3. E.H. Avagyan, "Physical Education", st. manual, Yerevan, 1988.
4. L.G. Azizyan, "Basic Gymnastics for Women", Yerevan, 2005.
5. K. Atoyan, "The Ancient Originals of Physical Culture and Sports in Armenia", Yerevan, 2005.
6. S. Hakobyan, L. Samvelian, "Physical Education in the University", manual, Yerevan, 1995.

6. COMPONENTS**POINTS**

Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

COURSE'S NAME	ARMENIAN LANGUAGE AND TERMINOLOGY		
COURSE'S TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General Medicine		
DEPARTMENT	General Medicine		
YEAR	I	SEMESTER	I, II
ACADEMIC YEAR	2018-2019		

COMPOSED BY	Amalya Grigoryan Anahit Karapetyan
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CHAIR	Humanitarian subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor Armen E. Khachikyan

COURSE'S VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	2	17	2	60	34		34	17	9		+
	II	2	17	2	60	34		34	17	9		+
Total		4	34	4	120	68		68	34	18		

1. PRECONDITION; *In order to master the course it is necessary;*

Knowledge of grammar of native and foreign languages which was formed at school.

2. SHORT SUMMARY OF THE SUBJECT

The Armenian language is taught in two stages; The "Initial Course" phase begins with teaching letters and includes the section "Related written and spoken word", second in the "Basic Training" phase language-grammatical realities are taught in a more coordinated manner, promoting the knowledge gained in the initial course, developing communication skills.

3. AIM OF THE SUBJECT

The purpose of the course is to teach the modern Armenian sound-alphabets, to form reading and writing skills, for further teaching of the syntax to facilitate oral and written communication, work through textual work, live texts, conversations, dialogues, develop vocabulary, gradually develop the vocabulary and the medical vocabulary.

4. EDUCATIONAL OUTCOMES: *At the end of the course the student should:*

Know the alphabet of the Armenian language, the written signs of the sounds, the minimum vocabulary required for communication, phonetic system of Armenian language, word types according to meaning and form, phrases, aphorisms, word types by composition, the necessary vocabulary required for communication, the main elements of the reversible word parts and the practical application of rigid parts of speech, the basic terms and phrases of the Armenian vocabulary related to professional training.

Be able to form individually related words understanding the syntax of the Armenian language, recognize the word components, use synonyms and antonyms in oral speech, read, understand and reproduce simple images, in particular, professional texts in various written sources, (dictionary, encyclopedia, press, directories, the Internet, etc.), acquire necessary information materials and apply them purposefully.

Master the ability to express freely in appropriate situations, to construct sentences grammatically correct, have skills to conduct a dialogue on the topic and the right reference, the ability to access dictionaries, encyclopedias, reference books, print and other modern information sources.

5. LITERATURE

1. A. Avetisyan, "Illustrated Armenian Language. Elementary Learning of English-speaking students ", textbook, Yerevan, 2004.
2. A. Sh. Avetisyan, "Armenian Language" (Manual for English-speaking students), Texts and Exercises, Yerevan, 2004.
3. A. V. Gevorkian, "East Armenian Course", Yerevan, 2000.
4. L.K.Muradyan, "Learning to read, write, speak Armenian" manual for English-speaking foreigners, Yerevan, 2011.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

COURSE'S NAME	LATIN		
COURSE'S TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General Medicine		
DEPARTMENT	General Medicine		
YEAR	I	SEMESTER	I, II
ACADEMIC YEAR	2018-2019		

COMPOSED BY	Victorya Tumanyan (external stakeholder), Zhanna Hakobyan
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CHAIR	Humanitarian subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor Armen E. Khachikyan

COURSE'S VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	2	17	2	60	34		34	17	9		
	II	2	17	2	60	34		34	17	9	6	
Total		4	34	4	120	68	-	68	34	18	6	

1. PRECONDITION; *In order to master the course it is necessary;*

As a basis for mastering the course, sufficient knowledge of the English language is needed, which has been formed at school.

2. SHORT SUMMARY OF THE SUBJECT

The course includes teaching of anatomical, histological, pharmacological, pathological and clinical terms. The course will allow foreign students to get acquainted with the active vocabulary used in anatomy, as well as the pathological and clinical terms formed on the basis of Greek and Latin billigism, which contribute to the acquisition of residual knowledge of students, which then enables the ability to get to know a foreign language medical literature, as almost all the European (except for German, which give priority to the origins of their own language, and then to the international) and western medical literature only Greek-Latin terms.

3. AIM AND OBJECTIVE OF THE SUBJECT

3.1. The aim of the subject

To teach Greek-Latin anatomical, clinical and pharmacological terms.

3.2. The objectives of the subject

- To introduce word formation content of medical terms.
- Formulate reading and writing skills.
- Teach a new vocabulary in order to form new professional terms in the future.

4. EDUCATIONAL OUTCOMES: *At the end of the course the student should:*

Know both to pronounce different words with the Latin-language phonetic rules, and orthographic rules of medical Latin, Latin and Greek prefixes and endings, chemical nomenclature in Latin, and their use in the chemical, prescription reduction rules.

Be able to determine the true gender of the Latin noun, number, case, and according to the appropriate adjective, complete the medical term of any complexity required, make prescriptions according to internationally accepted regulations, translate and compile various medical terms.

Master terminology in the anatomical and pathological spheres.

5. LITERATURE

1. V.M. Balabanyan, N.S. Stepanyan, Latin Terminology for Medical Students, Yerevan, 2008.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

COURSE'S NAME	PHILOSOPHY		
COURSE'S TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General Medicine		
DEPARTMENT	General Medicine		
YEAR	II	SEMESTER	I
ACADEMIC YEAR	2018-2019		

COMPOSED BY	Hayarpi Sahakyan, Gevorg G. Hakobyan (external stakeholder)
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CHAIR	Humanitarian subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor Armen E. Khachikyan

COURSE'S VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II	II	3	17	3	75	51	34	17	26	13		+
Total		3	17	3	75	51	34	17	26	13		

1. PRECONDITION; *In order to master the course it is necessary;*

– History

2. SHORT SUMMARY OF THE SUBJECT

“Philosophy” course focuses on the peculiarities of philosophical knowledge, the main problem of philosophy, development stages, major issues of key sections, the main viewpoints on them.

3. AIM AND OBJECTIVE OF THE SUBJECT

3.1. The aim of the subject

The purpose of the course is to introduce the student to the role of philosophy in culture, developing historical stages, main points of view on the major philosophical issues.

3.2. The objective of the subject

- Demarcation of knowledge, skill, method, scientific and non-scientific knowledge.
- Improve reading skills of universal and interconnected issues in social, legal, political and economic spheres,
- Practically reinforce grammar knowledge.

4. EDUCATIONAL OUTCOMES: *At the end of the course the student should:*

Know the main differences between philosophy and non philosophy, the main peculiarities of philosophical, scientific and everyday knowledge, the problem of philosophy in historical and logical contexts.

Be able to be objective and impartial, if the existing voluntary factor, to apply the unique philosophical knowledge in the professional field, when facing professional difficult-to-solve problems, apply philosophical approaches, always reaffirm that man is the highest value in every field and case.

Master analyze, summarize, criticize accurate methods, ways of knowledge differentiation and valuation, targeted assessment of existential realities and problem solving, the main forms of their approach.

5. LITERATURE

1. 12 Modern Philosophers, Edited by Christopher Belshaw and Gary Kemp, Blackwell Publishing 2009
2. by Oxford University Press Inc., New York, 2002
3. **Edward Craig**, Philosophy: A Very Short Introduction, Published in the United States
4. **Evans G.** “A brief history of heresy”, Blackwell Publishing, 2003
5. **Fisher A.**, Metaethics An Introduction, Printed and bound in the UK by MPG Books Group, Acumen, 2011
6. **Haldane J.J., Smart J. C.**, Atheism and Theism Second Edition, United Kingdom, Blackwell Publishing 1996, 2003
7. **Hebblethwaite B.**, “Philosophical Theology and Christian Doctrine”, Blackwell Publishing, 2005
8. Internet Encyclopedia of Philosophy, <http://www.iep.utm.edu>
9. **Kenny A.** , “An illustrated brief history of western philosophy”, Blackwell Publishing, 2006
10. **Solomon R.C., Higgins K.M.**, The Big Questions. A Short Introduction to Philosophy. Ninth Edition, Wadsworth, Cengage Learning, 2014.
11. Zakaryan S., History of Philosophy, Yerevan, 2000.
12. Mirumyan K., Antic philosophy essay, Yerevan, 1999.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	MEDICAL PHYSICS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	I	SEMESTER	II
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Armen Grigoryan
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CHAIR	Natural Sciences
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Hayarpi Javrushyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	II	3	17	3	90	51	24	27	26	13		+
Total		3	17	3	90	51	24	27	26	13		

1. INTRODUCTION. *In order to master the course,*

Mathematics, physics, biology

2. SHORT SUMMARY OF THE SUBJECT

The course "Medical Physics" is aimed to create systematic knowledge about the physical properties of biological systems and physical processes in them, which are necessary for the development of other educational programs, as well as the training of specialists in the medical specialty.

3. AIM OF THE SUBJECT

3.1. Aim of the Subject

In vocational education area the courses "Medical Physics" is aimed to introduce students to the physical phenomena of nature and biological systems, the basic principles and regularity, as well as the basic laws, study to apply the physical methods in different professional and social activities, to formulate students physical and analytical thinking.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know basic laws of physics, the physical phenomena and regularity in the human body and the processes taking place in nature, physical and mathematical methods of solving logical problems and their application in medicine, physical basis of medical equipment work, structure and meaning of medical equipment, the laws of work with devices and reagents in the Physics Lab and safety technique.

Be able to predict the course and results of physical interaction on the human body, use physical equipment, perform experimental results, develop statistical data, use educational, scientific and popular literature, internet network for professional activity.

Master to use theoretical knowledge to interpret the physical impact characteristics on living organisms. In the basic information modification technology - text, tabular, web search, and limitations on competence.

5. LITERATURE

1. Ulrich Zürcher Algebra-Based College Physics: Part I Mechanics to Thermal Physics. 1 edition © 2013 Ulrich Zürcher & bookboon.com SBN: 978-87-403-0425-1
2. Ulrich Zürcher Algebra-Based College Physics: Part II Electricity to Nuclear Physics 1st edition © 2013 Ulrich Zürcher & bookboon.com ISBN 978-87-403-0426-8.
3. Prof. Satindar Bhagat Elementary Physics I Kinematics, Dynamics And Thermodynamics. 2013 Prof. Satindar Bhagat & bookboon.com ISBN 978-87-403-0632-3.
4. Prof. Satindar Bhagat Elementary Physics II Oscillations, Waves: Sound and Electromagnetic/Light. 2013 Prof. Satindar Bhagat & bookboon.com ISBN 978-87-403-0823-5.
5. Daniel Gebreselasie Mechanics and Oscillations University Physics I: Notes and exercises. 1st edition © 2015 Daniel Gebreselasie & bookboon.com ISBN 978-87-403-0995-9.
6. Daniel Gebreselasie Electricity, Magnetism, Optics and Modern Physics College Physics II: Notes and exercises. 1st edition © 2015 Daniel Gebreselasie & bookboon.com ISBN 978-87-403-1056-6.
7. Վ. Բարխուդարյան, Մոլեկուլային ֆիզիկա, Ուս. ձեռնարկ: 2-րդ վերամշակված հրատարակություն: Երևան, ԵՊՀ հրատ., 2014, 332 էջ:
8. Աթայան Կ. Ի. Ֆիզիկան նշրջակամիջավայրը Ուս. ձեռնարկ, ԵՊՀ հրատ. 2012, 216 էջ
9. Մ. Գ. Աբրահամյան Մեխանիկայի ֆիզիկական հիմունքները Երևան, ԵՊՀ հրատ., 1997, 368 էջ
10. <http://www.physicsclassroom.com/>

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥ 51	S
Untested	< 51	U

SUBJECT	PLANTS MORPHOLOGY AND PHYSIOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	I	SEMESTER	I
ACADEMIC YEAR	2018-2019		

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CHAIR	Natural Sciences		
CLINICAL BASE	-		
HEAD OF THE CHAIR	PhD Hayarpi Javrushyan		

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	2	17	2	60	34	18	16	17	9		+
Total		2	17	2	60	34	18	16	17	9		

1. INTRODUCTION. *In order to master the course,*

Biology, Latin language, botany subjects are required

2. SHORT SUMMARY OF THE SUBJECT

Plants morphology and physiology is a science about plants, which explores their external and internal structures, pattern of development and distribution in the world.

It is one of the fundamental general theoretical sciences for higher medical education. The purpose of this subject is to enable student to understand the main subject-pharmacognosy, as well as to provide general biological knowledge to medical students. It is also necessary to understand some medical-biological subjects, such as medical biology, microbiology, biochemistry, Latin language, pharmacognosy, pharmacology.

3. AIM OF THE SUBJECT

3.1. Aim of the Subject

The study of botany develops student's interest to their specialty, helps to understand the necessity of nature's protection, and proper use of herbal resources.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know specific features of plant cell and containing substances, plant tissue's structure , anatomical and morphological structures of vegetative and generative organs, their specific features types of plant's reproduction, development pattern.

Be able to prepare temporary microscopic preparations, analyze temporary and permanent microscopic preparations by microscope, distinguish distinctive features, make conclusions in notebooks.

Master theoretical and practical deep knowledge related to profession, self-work skills by teaching, scientific, normative and informative literature, as well as by other sources of information

5. LITERATURE

1. K. Dumanyan, E. Meliqyan, Botany, Yerevan, 2011;
2. R. Kingsley, E. James, H. Shelley, Plant Biology, Edition Eleven, 2008.

6. COMPONENTS	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PHARMACOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	III	SEMESTER	IV, V
ACADEMIC YEAR	2018-2019		

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CHAIR	Natural sciences
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Hayarpi Javrushyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
	IV	4	17	4	120	68	22	46	34	18		+
	V	4	17	5	120	85	26	59	25	10	+	
Total		8	34	9	240	153	48	105	59	28		

1. INTRODUCTION. *In order to master the course,*

Human anatomy, Latin language, Microbiology, Virusology, Immunology, Normal physiology Biochemistry subjects are required

2. SHORT SUMMARY OF THE SUBJECT

Pharmacology subject is responsible for the knowledge of clinical pharmacological description of the main group of drug forms as well as knowledge of rational drugs selection during emergency situations and main pathological syndromes taking into account anti-doping legislation.

3. AIM OF THE SUBJECT

The aim of this subject is to provide knowledge to students about the different drugs actions, indications, contraindications, possible side effects, which are used for the prevention and treatment of various diseases and pathological condition, as well as teach the correct prescription ways of the drugs.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know Classification and the main description, pharmacokinetics and pharmacodynamics, uses, indications and contraindications, side effects of drugs, the general principles of prescriptions formation, theoretical principles of information search, gathering, storage, processing, transition, distribution in biological and medical systems, use of information computer systems in medicine and health care.

Be able to analyze general pathological problems and modern medical theoretical concepts and directions, use teaching and scientific literature, internet in order to execute professional activity, analyze drug actions and their use possibilities based on their pharmacological properties, prescribe recipes, use different drug forms, in different pathological conditions based on their pharmacokinetic and pharmacodynamic features, evaluate the possible side effects of drugs overdoses and their elimination ways, justify the principles of the most distributed diseases pathological therapy.

Master drug prescription skills for different pathological conditions and diseases treatment and prevention, the principles of diagnostic and curing measures in emergency and life dangerous situations accompanied by immunological disorders.

5. LITERATURE

1. K. Whalen, Lippincott Illustrated Reviews, Pharmacology, Philadelphia, 2011.
2. Справочник Видаль. Лекарственные препараты в России. Астра-Фарм-Сервис. М. 2009.
3. Харкевич Д.А. Фармакология: учеб. – М.: ГЭОТАР-МЕД, 2010.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PHARMACOGNOSY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	II	SEMESTER	III, IV
ACADEMIC YEAR	2018-2019		

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CHAIR	Natural sciences
CLINICAL BASE	
HEAD OF THE CHAIR	PhD H.G.Javrushyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II	III	2	17	2	60	34	17	17	17	9		+
	IV	2	17	2	60	34	17	17	17	9		+
Total		4	34	4	120	68	34	34	34	18		

1. INTRODUCTION. *In order to master the course,*

Plants morphology and physiology subject is required

2. SHORT SUMMARY OF THE SUBJECT

Pharmacognosy subject studies herbal plants, herbal raw materials and some animal origin products. The growing demand of herbal origin drugs and aggravation of ecological condition requires preparation of competent specialists in the herbal plants and their high qualified raw materials resources rational use field. It gives knowledge for practical activity, such as recognition of plants in nature, knowledge of rational harvest ways and time, drying conditions, ways of storage and analysis by using different pharmacognostic methods.

3. AIM OF THE SUBJECT

The aim of the subject is formation of knowledge, abilities and skills about general and specific parts of pharmacognosy, where herbal raw materials rational use problems underlie, taking into account scientifically proved suggestions about harvest, standardization, quality control, storage, as well as use of herbal raw materials and plant origin preparations in pharmacy.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know safety rules while working with herbal plants and herbal raw materials, latin names of herbal plants and herbal raw materials, the technique of microscopic preparations preparation from crushed leaves, herbs, flowers, fruits, barks, rhizomes and roots belonging to different morphological groups, macroscopic (appearance, color, smell) and microscopic (anatomical-distinguishing) features and methods of observation, classification of herbal raw materials, description chemical content, uses, the principles of herbal raw materials harvest, processing drying, storage.

Be able to recognize herbaric plants by morphological features, distinguish crushed leaves, herbs, flowers, fruits, barks, rhizomes and roots belonging to different morphological groups, determine herbal plants and herbal raw materials by indicators, carry pharmacognostic analysis, as well as researches finding out the main pharmacologically active compound s(terpenoids, glycosides, vitamins etc) and associating and ballast compounds, distinguish formidable and not formidable mixtures of herbal raw materials, organize and carry out herbal raw materials harvest, processing, drying and all the activities related to storage, participate in scientific researches taking place in pharmaceutical field.

Master carrying out the quality and microchemical reactions based on the active compounds contained in plants, ash, moisture, extractive compounds determination according to SPh, appropriate chromatography methods determination, formation of pharmacognostic analysis results.

5. LITERATURE

1. A.L."Pharmacognosy" handbook 2007
2. Д.А. Муравьева, И.А. Самылина, Г.П. Яковлев "Фармакогнозия" 2011

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	BIOORGANIC CHEMISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	I	SEMESTER	II
ACADEMIC YEAR	2018-2019		

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CHAIR	Natural sciences
CLINICAL BASE	
HEAD OF THE CHAIR	PhD, Hayarpi Javrushyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
First	II	3	17	3	90	51	26	25	26	13	+	
Total		3	17	3	90	51	26	25	26	13		

1. INTRODUCTION.

In order to master the course, the knowledge gained during the school year and also in the semester as basic knowledge of organic chemistry is used as a basis for biochemical chemistry.

2. SHORT SUMMARY OF THE SUBJECT

The "Biochemical Chemistry" course involves the knowledge of the vital biological classes of organic compounds and the chemical properties of biopolymers as proteins or polysaccharides, which will serve as a basis for studying the processes on molecular level in the living systems.

3. AIM AND OBJECTIVES OF THE SUBJECT

1.1. Aim of the Subject

To study the structure of all organic compounds from living sources, including biopolymers, such as proteins, nucleic acids, polysaccharides and bio regulators, other metabolites and reveal connection between structure and function of these compounds.

1.2. Objectives of the Subject

Once a structure is known, to synthesize the compound in the laboratory and manufacture the compound if it is more economical, than to isolate from a natural sources.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know the basic concepts of general and biochemical chemistry, the main functional groups that determine the acidity of the molecule, the substituted and non-interchangeable amino acids, the biological significance and chemical properties of monosaccharide's, the prevalence of alkaloids, their role and importance in human life, the biological significance of heterocyclic compounds, and mezomeric and inductive effects of the effects on molecular syrups, the lipid structure, the classification of hydrophobic and hydrophilic lipids, the properties of purine and pyrimidine groups in the DNA molecule structure.

Be able Can make laboratory and research work, coordinate laboratory work and connect with the theoretical section of contemporary literature and various sources.

Master skill to get out of the problematic situations.

5. LITERATURE

1. Bender, R. Bergeron, M. Komyma, Moscow, 1987
2. G. Dyug, P. Penny, Bioorganic Chemistry, Moscow, 1983
3. B. Beloborodov, S. Zurabyan, A. Luzin, N. Tukavkina, Organic Chemistry: manual, Moscow, 2002
4. Organic chemistry: manual, ed. N. Tukavkina, Moscow, 2008
5. V. Beloborodov, S. Zurabyan, A. Luzin, N. Tukavkina, Organic Chemistry: manual, Moscow, 2003
6. N. Tukavkina, Laboratory experiments on organic chemistry, Moscow, 2002
7. T. Lindhorst, Essentials of Carbohydrate Chemistry and Biochemistry, Weinheim, 2007
8. H. Wennemers, Highlights in Bioorganic Chemistry, Weinheim, 2004

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	BIOCHEMISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	II	SEMESTER	III, IV
ACADEMIC YEAR	2018-2019		

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CHAIR	Natural Sciences
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Hayarpi Javrushyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II	III	5	17	5	150	85	30	55	42	23		+
	IV	3	17	3	90	51	18	33	25	14	+	
Total		8	34	8	240	136	48	88	67	37		

1. INTRODUCTION. *In order to master the course,*

Required High School and first-year knowledge from biology, chemistry, anatomy, physics, mathematics.

2. SHORT SUMMARY OF THE SUBJECT

The subject of "Biochemistry" provides students with fundamental knowledge about monosaccharides, oligosaccharides, homo- and heteropolysaccharides, carbohydrates, proteins, amino acids, enzymes, lipids, heme, nucleic acids, vitamins, biological membranes, cellular signals. The course also includes biochemistry of liver, muscle tissue and nerve tissue.

3. AIM OF THE SUBJECT

The main objective of the Biochemistry course is to give students basic system knowledge about the structure of the most biologically important chemical compounds in the cell (nucleic acids, lipids, vitamins, proteins, carbohydrates, hormones, enzymes etc.), metabolic interactions between them and functions of the molecular mechanisms.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know The rules of safety technique in the physical, chemical and biological laboratories. Nature of physical and chemical processes while working with animal and plant subjects, in the living organisms, molecular, cellular, tissue and organism levels, the role of carbohydrates and amino acids in metabolism, the structure and function of most important chemical compounds (proteins, carbohydrates, hormones, etc.), principles of hemoglobin chemistry, its participation in gas exchange and acid-glucose balance.

Be able use scientific literature and internet for professional activities; Use chemical, physical and biological equipment; Distinguish normal values of the metabolites (glucose, urea, lactic acid, pyrrhotic acid, etc.), read proteinography and explain the reasons for differences, analyze data on fermentological examination of blood serum.

Master Preliminary diagnostic skills based on biochemical research in human biological fluids.

5. LITERATURE

1. C. Smith, Marks' Basic Medical Biochemistry, a Clinical Approach, Philadelphia, 2012
2. D. Nelson, M. Lehninger, Principles of Biochemistry, Atlanta, 2009
3. H. Lodish, A. Berk, S. Zipursky, P. Matsudaira, D. Baltimore, J. Darnell., Molecular Cell Biology, New York, 2000
4. J. Berg, J. Tymoczko, L. Stryer, Biochemistry, New York, 2002
5. А. Цыганенко, В. Жуков, В. Мясоедов, И. Завгородний, Клиническая биохимия, Москва, 2002
6. Биохимические основы патологических процессов, ред. Е. Северина, Москва, 2000
7. Р. Марри, Д. Греннер, П. Мейес, В. Родуэлли, Биохимия человека, Москва, 1993
8. Т. Березов, Б. Коровкин, Биологическая Химия, Москва, 2008
9. Գ. Խաչատրյան, Մ. Աղաջանյան, Շենսարիմիա, Երևան, 2001
10. <http://www.booksmed.com>
11. <http://pubmed.gov>
12. <http://www3.interscience.wiley.com/cgi-bin/>
13. <http://www.freebooks4doctors.com>
14. <http://www.namrata.co/>

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	CLINICAL PHARMACOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicin		
YEAR	VI	SEMESTER	XII
ACADEMIC YEAR	2018-2019		

MADE BY	Tatevik Grigoryan
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CHAIR	Therapeutic subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Maro Nazlukhanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
VI	XII	4	17	3	90	51	18	33	26	13		
Total		4	17	3	90	51	18	33	26	13		

1. INTRODUCTION. *In order to master the course,*

Pharmacology, Chemistry, Anatomy, Physiology, Pathophysiology, Immunology, Microbiology

2. SHORT SUMMARY OF THE SUBJECT

Clinical pharmacology is the science about influence of medicinal products into the human body.

Clinical Pharmacology promotes the rational use of medications in humans by studying their pharmacokinetics and pharmacodynamics, side effects, indications and contraindications, drug-food interactions, drug-drug interactions, as well interaction examples between medications and patient organism by case studing.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of the Subject is to educate students the principles of rational use of medications.

3.2. The main objective is to promote the safety of prescription, maximize the drug effectiveness and minimize the side effects.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know the course of a diseases, the principles of its' diagnosis and treatment, including rational use of medications.

Be able to justify the choice of the safest, most effective and affordable treatment for each pathological condition.

Master

In case of polypragmasia to know the main principles of drug interactions by excluding the dangerous interactions.

5. LITERATURE

1. Goodman and Gilman's The Pharmacological Basis of Therapeutics, 13th edition, 2017
2. <http://drugs.com>
3. <http://www.fda.gov>
4. <https://www.medicines.org.uk/emc>
5. www.gov.uk

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	MATHEMATICS AND MEDICAL INFORMATICS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine, General		
YEAR	I	SEMESTER	I, II
ACADEMIC YEAR	2018-2019		

MADE BY	Lia Martirosyan PhD Armen Grigoryan
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CHAIR	Natural Sciences
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Hayarpi Javrushyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	3	17	3	90	51	18	33	26	13		+
	II	2	17	2	60	34	16	18	17	9		+
Total		5	34	5	150	85	34	51	43	22		

1. INTRODUCTION. *In order to master the course,*

- Knowledge in “Informatics” and “Math” school subjects
- Introduction to the main concepts and terms of Informatics

2. SHORT SUMMARY OF THE SUBJECT

It is impossible to explore other sciences without knowing Math. Mathematical thinking, ideas, and judgements are the languages that other sciences use to speak, write and think. With great precision Math examines and explains the most difficult problems and describes the process of mathematical phenomena.

“Mathematical Informatics” helps to form computer knowledge for using modern technologies, receiving and cultivating information in the Health care field.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of the Subject

The aim of the course is to give basic mathematical knowledge and teach techniques which are necessary for studying other subjects and for solving problems met during professional working field

3.2. Objectives of the Subject

The course should cover topics such as real numbers sets, the limit of the function, continuity, derivative, differential, theory of differential calculus and their practical use. The course should give students the necessary knowledge for using the modern technologies in the Medicine and Health care sphere.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know about the sets of numbers, continuity of functions, derivative, the methods of calculating limits, the properties of differential, the methods of calculating the higher derivative of functions, differential equations, informational technologies, MS office software, the Internet and the ways how to use it, online medical dictionaries, encyclopedias, extensions and tools for doing medical surveys and filling medical applications.

Be able to perform operations with Real numbers, calculate the limits of the functions, prove continuity of the functions, find the points of discontinuity, calculate the first and higher derivatives of elementary functions, use all this knowledge in medicine for solving medical problems, use MS office software for making, filling and using medical documents, use medical dictionaries and encyclopedias, search and find medical extensions.

Master the theory of limits, theorems, facts, methods and terminology of continuity of functions, derivatives and differentials, MS office software, and gain skills for individual analytical final paper.

5. LITERATURE

1. H. Ghazaryan, A. Hovhannisyanyan, T. Harutyunyan, G. Karapetyan, Ordinary differential equations, Yerevan, 2002
2. G. Fichtenholz, The fundamentals of mathematical analysis, Volume 1, Yerevan , 1970
3. S. Harutyunyan, Higher Mathematics , Yerevan , 2000
4. C. Neuhauser, Calculus for Biology and Medicine, London, 2011
5. Manukyan, A. Sargsyan, «Informatics», Gyumri, 2010
6. A. Galstyan, Office 2010, Yerevan , 2010
7. F. Bradley, Internet User Manual, Yerevan , 2002

6. COMPONENTS

POINTS

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥ 51	S
Untested	< 51	U

SUBJECT	BIOORGANIC CHEMISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	I	SEMESTER	I
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Anna Grigoryan, PhD Margarita Hovhannisyan,
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CHAIR	Natural sciences
CLINICAL BASE	
HEAD OF THE CHAIR	PhD, Hayarpi Javrushyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
First	I	3	17	4	120	68	34	34	34	18	+	
Total		3	17	4	120	68	34	34	34	18		

1. INTRODUCTION.

In order to master the course, students have to know osmotic pressure, which phenomenon manifests itself in many interesting applications. To study the contents of red blood cells, which are protected from the external environment by a semipermeable membrane, biochemists use a technique called hemolysis. The pH in the human body which varies greatly from one fluid to another; for example, the pH of blood is about 7.4, whereas the gastric juice in our stomachs has a pH of about 1.1. These pH values, which are crucial for the proper functioning of enzymes and the balance of osmotic pressure, are maintained by buffers in most cases. Energy changes during chemical reactions.

2. SHORT SUMMARY OF THE SUBJECT

Basic knowledge in blood buffers action and buffer capacity, solutions and concentration expressions, main concepts of thermodynamics and different type of system, application of Hess`s Low for determination of enthalpy change of system, coordination compounds and chelating agents as an antidote. Electrode potential measurements of e.m.f.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of the Subject

To study the colligative properties of ideal solutions to determine molecular mass of unknown compounds, osmoregulation of red blood cell. Complex coordination compounds as an antidote, complexometric titration, half-life of medicines, thermodynamic concepts.

3.2. Objectives of the Subject

To study pH of main fluids of our body, oncotic pressure meaning, colloidal systems, potentiometric measurement of pH., acid-base titration and determination of hardness of tap water.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know chemical equilibrium and factors affecting it, Raoult's law, properties of solutions, laws of thermodynamics and their application in biological systems, buffer solutions, and physical properties of colloidal solutions, electrophoresis and its application in medicine.

Be able. to use scientific, methodological literature for professional development of different social. To use the chemical, physical and biological equipment, to analyze the results of practical work, to carry out an analysis of the data of the analysis, to forecast the process and results of physicochemical processes and chemical conversions of biologically important compounds, to perform thermo chemical calculations necessary for calculating the rational power energy list, use the IUPAC nomenclature used in biologically important compounds and pharmaceuticals in formulas for reading.

Master The knowledge, skills and abilities necessary for the application of the subject of the master.

5. LITERATURE

1. Advanced Inorganic Chemistry, New York, ed. F. A. Cotton, 1980
2. Chemistry: foundations and applications, ed. J. Lagowski, New York, 2004
3. Hawley's condensed chemical dictionary. Re. R. Lewis, Hoboken, 2007.
4. Lange's handbook of chemistry. 11th ed., New York, 1973
5. Physical and Inorganic Chemistry, ed. A. Bakac, Hoboken, 2010
6. R. Krebs, The history and use of our earth's chemical elements: a reference guide, Westport, 2006
7. V. Popkov, Chemistry Chemistry, Moscow, 2007-2009
8. N. Mushkambarov, Physic and Colloidal Chemistry, Moscow, 2001
9. O. Reutov, A. Kuryin, K. Butin, Organic Chemistry, Moscow, 2003
10. The basics of analytical chemistry. General questions. Methods of separation, Moscow, 2002
11. The basics of analytical chemistry. General questions. Method of chemical analysis, M., 2002

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PATHOLOGICAL ANATOMY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	II, III	SEMESTER	IV, V
ACADEMIC YEAR	2018-2019		

MADE BY	Maria Babayan M.D. Asadoor Amirkhani Namagerdi
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CHAIR	Medicobiological subjects
CLINICAL BASE	Saint Grigor Lusavorich medical center
HEAD OF THE CHAIR	PhD Naira Hunanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II	IV	5	17	5	150	85	30	55	43	22		+
III	V	4	17	4	120	68	26	42	34	18	+	
Total		9	34	9	270	153	56	97	77	40		

1. INTRODUCTION. *In order to master the course,*

It is needed to have passed Biology, Biochemistry, Human anatomy, Topographic anatomy and operative surgery, Histology, embryology, cytology, Normal physiology, Microbiology, virology and immunology.

2. SHORT SUMMARY OF THE SUBJECT

The course studies General anatomic pathology including cellular pathology, general pathological processes which are present in all of the diseases (including blood diseases) and Systemic anatomic pathology involving the etiology, pathogenesis and morphologic patterns of all of the diseases.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of of anatomic pathology course is to study the basic structure of diseases and pathologic processes, their etiologies, morphogenesis, morphologic pictures, complexities, treatment and discovering cause of death and to apply in the clinical field.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know the terminology used in anatomic pathology, basic methods for diagnosis, etiology, pathogenesis and morphology concepts and the basics for classification of diseases, basics in general pathology, morphologic changes in common diseases, clinical-anatomical analysis, the basics in anatomical pathology diagnosis.

Be able to diagnose the pathologic processes and their clinical nature and interpret the morphologic patterns and clinical picture at different stages of diseases, to find the etiology of diseases, pathogenesis, morphogenesis, the end result and in case of death to diagnose its cause and mechanisms, to do clinical-anatomical analysis, anatomical pathological diagnosis, discuss the discovered morphologic changes in diseases and pathologic processes with colleagues and patients in clinical meetings, perform clinical-anatomical analysis.

Master to work with macroscopic and microscopic anatomic pathology preparations and interpret the pathologic processes.

5. LITERATURE

1. «*Պարոնգիական անատոմիա*», հեղինակ-խմբագիր պրոֆ. Ն.Դ. Վարդապարյան, Երևան, 2006:
2. «*Патологическая анатомия*». Под ред. А.И. Струкова, В.В. Серова. Учебник. Переиздание. –М.: ОАО Издательство «Медицина», 2015.
3. Vinay Kumar, Abul K. Abbas, Jon C. Aster. *Robbins Basic Pathology*, 9-th edition, 910, Copyright © Saunders 2013, an imprint of Elsevier Inc. Printed in Canada.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PATHOPHYSIOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	III	SEMESTER	V, VI
ACADEMIC YEAR	2018-2019		

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CHAIR	Medicobiological subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Naira Hunanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
III	V	4	17	4	120	68	26	42	34	18		+
	VI	5	17	5	150	85	30	55	42	23	+	
Total		9	34	9	270	153	56	97	76	41		

1. INTRODUCTION. *In order to master the course,*

It is needed to have passed Biology, Biochemistry, Human anatomy, Topographic anatomy and operative surgery, Histology, Microbiology and Normal physiology.

2. SHORT SUMMARY OF THE SUBJECT

The pathophysiology course studies general pathophysiology including the etiology and the development process of diseases, pathogenesis, routes of transmission, hematologic and cardiovascular diseases and systemic pathophysiology including respiratory, gastrointestinal, genitourinary, endocrine and nervous systems diseases.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of the subject is to understand the mechanisms of development of human diseases including the etiology, pathogenesis, clinical pictures and treatment.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know the general basic nosologic concepts, the roles of causative agents, consequences and the organisms reactions in development and progress and ways of treatment of diseases, and to know the classic pathologic processes and the causes and mechanisms of the organism reactions progress in relation to the development of different diseases in different organs and systems. The student should experience the practical methods investigating pathologic processes and the possibilities, limitations and the future outcomes and the role of pathologic morphologic patterns in clinical medicine and its relation with different medical specialities.

Be able to perform practical experiments, accumulate and interpret the present findings, to do hemograms, electrocardiograms, and general laboratory and biochemical tests analysis, solve the probable problems and use the findings in medical prophylaxis and treatment.

Master experiments in laboratory animals according to standard rules and models regarding different pathophysiologies in different organs and systems.

5. LITERATURE

1. А. Адо, Патологическая физиология, Москва, 2002
2. П. Литвицкий, Патофизиология, Москва, 2002
3. ROBBINS AND COTRAN PATHOLOGIC BASIS OF DISEASE, ninth edition, ISBN: 978-1-4557-2613-4 © 2015 by Elsevier, Inc.
4. ROBBINS BASIC PATHOLOGY, ninth edition, ISBN: 978-0-323-35317-5 © 2013 by Elsevier Inc.

6. COMPONENTS

POINTS

Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	FORENSIC MEDICINE		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	VI	SEMESTER	XI
ACADEMIC YEAR	2018-2019		

MADE BY	Hasmik Zakaryan
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CHAIR	Clinical Subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
VI	XI	4	17	4	120	68	24	44	34	18		+
Total		4	17	4	120	68	24	44	34	18		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, orthopedics and traumatology, internal diseases, obstetrics and gynecology.

2. SHORT SUMMARY OF THE SUBJECT

" Forensic Medicine " is a educational discipline which studies the main sections of forensic medicine: the subject of forensic medicine and its study objects, the basics of the forensic service, forensic medical examination of the corpse, forensic traumatology, its types, forensic toxicology, forensic examination of material evidences, medical professional offenses. This knowledge will be used in solving of the practical issues arising in the medical practice

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of subject:

Aim of teaching and learning of the academic discipline "forensic medicine " is to study the the main sections of forensic medical examinations, whose knowledge will be used to solve various medical issues arising in practice.

3.2. Course Objectives:

- Detect the main study objects of forensic medicine.
- Introduce ways of forensic medical examination of the corpse, peculiar properties of the forensic traumatology and toxicology.
- Identify forensic examination of material evidences, medical professional offenses.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- The procedural, forensic medical research methods, conclusions and documentation.
- Medical ethics,
- Peculiarities of forensic examination of fetal and infant corpses;
- The healthcare providers' liability for professional offenses

Be able

- to carry out an examination of the scene of the accident;
- to perform the forensic examination of live individuals and corpses;
- to perform the diagnosis of autopsion material.

5. LITERATURE

1. Շ.Ա. Վարդանյան, «Դատական բժշկություն», Երևան, 1995 թ.
2. Ն.Մ. Ավագյան, Շ.Լ. Նազարեթյան, Ա.Ս.Թորոսյան, «Դատական բժշկության դասընթաց», Երևան, 1978 թ.
3. Судебная медицина в схемах и рисунках; Г. А. Пашимян, П. О. Ромодановский; М, ГЭОТАР-Медиа, 2010.
4. The Essentials of Forensic Medicine and Toxicology 33rd Edition by K. S. Narayan; 2017.
5. Балаян Р.А., “Смертельная травма в связи с падением с высоты”, Ленинград, 1976 г.
6. Гурочкин Ю.Д., “Курс лекции по судебной медицине”, Москва, 1999г.
7. Крюков В.Н., “Судебная медицина”, Москва, 1998г.
8. “Судебная медицина” под ред. В.М.Смолянинова, Москва, 1975г.
9. Пиголкин Ю.Н, “Судебная медицина”, Москва, 2005г.

6. COMPONENTS

POINTS

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	HISTOLOGY, EMBRIOLOGY, CYTOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	I, II	SEMESTER	II, III
ACADEMIC YEAR	2018-2019		
MADE BY	PhD Naira Hunanyan		
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CHAIR	Medicobiological subjects		
CLINICAL BASE	-		
HEAD OF THE CHAIR	PhD Naira Hunanyan		

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	II	5	17	5	150	85	18	67	42	23	+	
II	III	4	17	4	120	68	18	50	34	18	+	
Total		9	34	9	270	153	36	117	76	41		

1. INTRODUCTION. *In order to master the course,*

The knowledge of following subjects is necessary: biology, human anatomy, physics and math, general and bioorganic chemistry, latin.

2. SHORT SUMMARY OF THE SUBJECT

The histology, embryology, cytology course comprises 2 semesters of classes.

The following sections are included in the II semester: cytology- studying the vital functions and structure of the human cells – cell membrane, nucleus, organelles and inclusions, cell renewal and death, embryology - studying the embryonic development and the initial stages of the fetal period, general histology – studying the main tissues of the human body, functional and cellular elements of various tissues. The section of microscopic anatomy is included in the III semester- studying the structure of organs and organ systems in macroscopic, microscopic and *electron microscopic* levels, also, taking into account their functions.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of discipline is gaining deep knowledge by the students in development and microscopic morphological structure of human cells, tissues and organ systems, which will serve as a basis for the study of clinical subjects and development of medical thinking.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- structural characteristics, development and localization of cells, tissues, organs and organ systems in cooperation with their functions,
- the basic patterns of development and functioning of the organism, conditioned by the structural properties of cells, tissues and organs,

- histofunctional properties of the tissues, their *research methods*,
- the physico-chemical nature of the processes occurring in the living organisms that take place on molecular, cellular, tissue and organ levels.

Be able

- to use magnifying equipment (microscopes, optical and simple magnifiers),
- to describe the structure of cells and tissues, give a histophysiological assessment of different states, define the microstructure, location, histological description and the correct names of the organs and their constituents.

Master

- the skills of medico biological terminology,
- the microscopy skills,
- the analyzing skills of histological preparations and electronic microphotography.

5. LITERATURE

1. **Michael H. Ross, Wojciech Pawlina.** *Histology (with correlated cell and molecular biology)*. A Text and Atlas. Sixth Edition, ISBN 978-0-7817-7200-6. Two Commerce Square 2001, Market Street, Philadelphia, PA 19103, 975 pp., 2011.
2. **Sadler T. W.** *Langman’s medical embryology*, 12th ed. ISBN 978-1-4511-1342-6, Copyright © 2012 Lippincott Williams & Wilkins, a Wolters Kluwer business. 351 West Camden Street Two Commerce Square Baltimore, MD 21201 2001 Market Street Philadelphia, PA 19103.
3. **Gartner L. P., Hiatt J. L., Strum J. M.** *Cell Biology and Histology*. 6th edition, ISBN 978-1-60831-321-1. 351 West Camden Street Baltimore, MD 21201, 374 pp., 2011.
4. *Гистология. Учебник, 2-е изд.* Под ред. Улумбекова Э. Г., Чельшева Ю.А. Москва, ГЭОТАР-МЕД, ISBN 5-9231-0228-5, 672 стр., 2002.
5. **Быков В.Л.** *Частная гистология человека*. 2-е изд, СОТИС, Санкт-Петербург, ISBN 5-85503-116-0, 298 стр., 1999.
6. **Алмазов И.В., Сутулов Л.С.** *Атлас по гистологии и эмбриологии*. Москва, “Медицина”, 544 стр., 1978.

6. COMPONENTS

POINTS

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	BIOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	I	SEMESTER	I, II
ACADEMIC YEAR	2018-2019		
MADE BY	PhD, Associated Professor Inga Bazukyan		
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E-MAIL	bazukyan@ysu.am		
CHAIR	Medico-biological subjects		
CLINICAL BASE	-		
HEAD OF THE CHAIR	PhD, Naira Hunanyan		

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	5	17	5	150	85	22	63	43	22	+	
	II	4	17	4	120	68	18	50	34	18	+	
Total		9	34	9	270	153	40	113	77	40		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the school curriculum includes the following subjects: general biology, human anatomy, chemistry.

2. SHORT SUMMARY OF THE SUBJECT

The «Biology» subject is educated during two semesters: At **the first semester** the main issues of the biology will be discuss: the purpose and problems of the subject will be presented, the levels of the live material organization will be explained, and the properties of live systems will be elucidated. The cell biology, inheritance laws, the pathways and mechanisms of organisms' modification will be educated in details. During **the second semester** the students will learn the individual development organisms, will know the patterns and mechanisms of ontogenesis, the modern theories of evolution, the role of population, the factors of evolution: The phases of anthropogenesis will be discussed, as well as the effects of the ecology and environment on the anthropogenesis will be explained too. The main problems of parasitism will be summarized.

3. AIM AND OBJECTIVES OF THE SUBJECT

The main purpose of the "Biology" training course is the development of the basic knowledge about cell biology, genetics, developmental biology, micro- and macro- evolutions, anthropogenesis, general biology, parasitology and human ecology to the students.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the structure of biological systems at molecular levels,
- cell structure,

- mechanisms of usage, transmission and storing of the biological information,
 - peculiar properties of the eukaryotic and prokaryotic genomes,
 - the different types of organisms' reproduction,
 - the molecular mechanisms of the individual development of organisms,
 - new approaches to treatment of human hereditary diseases,
 - gene and cellular therapy,
 - the base of parasitism.
- Be able**
- to use the educational, scientific, publicly accessible literature and the Internet,
 - to use the laboratory equipment,
 - to work with a light microscope,
 - to carry out biological experiments,
 - to analyze and reproduce the molecular models of DNA copying and protein biosynthesis processes.
- Master**
- the skills of the mapping or displaying of studied objects and processes in the form of graphs,
 - the skills of electronic graphic analysis,
 - the skills for drawing of the pictures and charts depicting the prenatal causes and mechanisms of children's chromosomal pathology,
 - the skills of detection of helminth eggs in the patient's feces.

5. Literature

1. B. Glick, J. Pasternak, Molecular Biotechnology, Washington, 2002
2. M.T. Madigan, K.S. Bender, D.H. Buckley, W.M. Sattley, D.A. Stahl, 15th edition of "Brock Biology of Microorganisms", Pearson NY, 2018, 1064 p.
3. S.R. Goodman "Medical Cell Biology" 3th edition, Academic Press, Elsevier, 2008, 336 p.
4. General Biology, Wikibooks.org, 2013
5. O. Brandenburg, Z. Dhlamini, A. Sensi, K. Ghosh, A. Sonnino, Introduction to Molecular Biology and Genetic Engineering, Rome, 2011
6. W. Thieman, M. Palladino, Introduction to Biotechnology, Second Edition, New Jersey, 2009

6. COMPONENTS

POINTS

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	MICROBIOLOGY, VIROLOGY, IMMUNOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	II, III	SEMESTER	IV, V
ACADEMIC YEAR	2018-2019		
MADE BY	PhD, Armine Margaryan PhD, Associated Professor Hovik Panosyan		
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CHAIR	Medico-biological subjects		
CLINICAL BASE	-		
HEAD OF THE CHAIR	PhD, Naira Hunanyan		

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
General Microbiology and Immunology												
II	IV	5	17	5	150	85	26	59	42	23		+
Human Pathogenic Microbes												
III	V	4	17	4	120	68	22	46	34	18	+	
Total		9	34	9	270	153	48	105	76	41		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the school curriculum includes the following subjects: biology, chemistry, physics, biochemistry, human anatomy, bioethics, history of medicine, psychology, latin.

2. SHORT SUMMARY OF THE SUBJECT

The subject of Medical Microbiology, problems and developmental stages, Main groups of bacteria, structural and metabolic features of bacteria, cultivation and classification, Infection, epidemiology of the infection process, immune system, immunotherapy, immunoprophylaxis and immunodiagnostics, General virology, Human normal microbiota, bacterial detection methods and antimicrobial chemotherapy, Human Pathogenic Microbes, Diseases caused by Gram positive bacteria, Diseases caused by Gram negative bacteria, Viral diseases, including oncogenic viruses, hepatitis B and C, herpes, papillomas, and retroviruses, Mycosis, mycotoxins, Diseases caused by protozoa.

3. AIM OF THE SUBJECT

The main purpose of the course is the development of the basic knowledge about microbial diversity, classification and properties, as well as general knowledge about human normal microbiome, immunology, immunity, epidemiology, prevention and treatment of illness caused by human pathogenic microbes to the students.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know: General microbiology, the rules of safety in microbiological laboratories, the role of symbiotic processes in the human body and microbes, the role of microorganisms in the

development of opportunistic diseases, antibiotic resistance of bacteria and their determination in etiology and pathogenesis of human major infectious diseases, use of microbiological diagnostics methods for isolation and identification of pathogenic bacteria.

Be able: To use microbiological methods to analyze the results derived from microbiological, molecular, biological and immunological analysis, to use molecular-biological and immunological methods to justify the choice of microbiological, serological and immunological diagnostics in case of infectious and opportunistic diseases, to analyze the results obtained from the microbiological point of view in the case of diagnosis of infectious and opportunistic illness; the knowledge gained from antibacterial, antiviral, and antibiotics, urgent prevention and antitoxic therapy.

Master: Basic methods of sulfurization, disinfection, basic diagnostic skills based on the results of laboratory (microbiological and immunological) studies of adult and infants, basic skills of working with contagious bacterial, antimicrobial and mycobacterial substances for adequate prevention and treatment of infection and non-infection diseases, method of choice for diagnosis of microbial infections.

5. Literature

1. Brooks G.F., Morse S.A., Carroll K.C., Mietzner T.A., Butel J.S., Jawetz, Melnick, &Adelberg'sMedical Microbiology. 26th Edition, New York, Chicago, San Francisco, Lisbon, London, Madrid, Mexico City, Milan, New Delhi, San Juan, Seoul, Singapore, Sydney Toronto, Copyright © 2013 by The McGraw-Hill Companies.
2. Brock Biology of Microorganisms. Madigan M.T., Martinko J.M., Dunlap P.V., Clark D.P., 13th ed., Pearson, 2012, 1152 p.
3. Kayser H. Fritz et al, Medical Microbiology, 2005, Thieme, New York, pp. 698
4. Practical handbook of microbiology. Eds, Goldman E. and Green L.H. 2nd ed. CRC Press. Taylor & Francis Group, 2009, 854 p.
5. Dahlén G., Fiehn N.-E., Olsen I., Dahlgren U. Oral Microbiology and Immunology, MunksgaardDanmark, 2014:
6. Carter J. and Saunders V. Virology: Principles and Applications. John Wiley & Sons Ltd, 2007, 358 p.
7. Tortora G.J., Funke B.R., Case Ch.L. Microbiology: An introduction. 11th ed., Pearson/Benjamin Cummings, 2013, 811 p.

6. COMPONENTS

POINTS

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	HUMAN ANATOMY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	I, II	SEMESTER	I, II, III
ACADEMIC YEAR	2018-2019		

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CHAIR	Medico-biological subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Naira Hunanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
I	I	4	17	4	120	68	18	50	34	18	+	
	II	4	17	4	120	68	20	48	34	18	+	
II	III	4	17	4	120	68	20	48	34	18	+	
Total		12	51	12	360	204	58	146	102	54		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the school curriculum includes the following subjects: general biology, zoology, human anatomy, chemistry.

2. SHORT SUMMARY OF THE SUBJECT

The human anatomy course studies the anatomical peculiarities of the human body on the level of organs, systems of organs and the whole organisms (systemic anatomy). During the first semester students study osteology, arthrology, myology; during the second semester students study splanchnology and angiology; during the third semester students study neurology and aesthesiology.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of the "Human Anatomy" course is to understand the structural peculiarities of the human body as a whole organism and on the level of organs and system of organs. It's necessary to master the English and Latin (Hellenic) terminology according to the international anatomical nomenclature, to learn the general methods of dissection and to show of the natural anatomical structures on the anatomical preparations, to interpreted the embryonic development of human organs and stages of postembryonic development, to characterize the structural, sexual, age, personal peculiarities of the human body and possible congenital defects; to be able to use the acquired knowledge later in the study of clinical subjects, as well as in the future doctor's practice.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the structural peculiarities of the human body as a whole and consecutively on the level of organs and system of organs;
- the general methods of dissection and to show of the natural anatomical structures on the anatomical preparations;
- the embryonic development of human organs and stages of postembryonic development;
- the structural, sexual, age and personal peculiarities of the human body;

Be able

- to comment the general methods of dissection and to show of the natural anatomical structures on the anatomical preparations,
- to characterize the structural, sexual, age, personal peculiarities of the human body and possible congenital defects;
- to use the acquired knowledge later in the study of clinical subjects, as well as in the future doctor's practice.
- to use educational, scientific, publicly-available literature and the Internet.

Master

- the skills of the methods of analysis cadaverous material,
- the skills of the physical examination of a living person: palpation, percussion, auscultation.
- the skills of the English and Latin (Hellenic) terminology according to the international anatomical nomenclature;

5. LITERATURE

1. Methodical aids of chair.
2. F. Netter, Atlas of Human Anatomy, 6th Edition, Amsterdam, 2014
3. Keith L. Moore Clinically Oriented Anatomy 7th Edition, 2017
4. Gray's Anatomy, 41st Edition, 2016

6. COMPONENTS	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	NORMAL PHYSIOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	II	SEMESTER	III, IV
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Harutyun Stepanyan
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CHAIR	Medico-biological subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Naira Hunanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II	III	5	17	5	150	85	26	59	43	22	+	
	IV	4	17	4	120	68	22	46	34	18	+	
Total		9	34	9	270	153	48	105	77	40		

1. INTRODUCTION. *In order to master the course,*

The knowledge of following subjects is necessary: physics and math, biochemistry, biology, human anatomy, histology, embryology and cytology, history of medicine, latin.

2. SHORT SUMMARY OF THE SUBJECT

The normal physiology course comprises 2 semesters of classes.

The following sections are included in the III semester: physiology of the blood system, digestive system, excretory system, metabolism of energy and thermoregulation, physiology of the excitable tissues.

Physiology of the cardio-vascular, respiratory, endocrine, central nervous, sensory systems and higher nervous activity are included in the IV semester.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of discipline is gaining deep knowledge by the students in the life activities of different cells, organ-systems and whole organism, neuro-humoral mechanisms of their regulation, understanding the role and significance of the physiological processes, taking part in different systems and in whole organism, the principles in controlling and modeling of the functions that will finally give a strong basis and facilitate the mastering of medico biological subjects.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the functions of the organ-systems and whole organism, principles of their regulation,
- physiological, individual, sex and age related specifications of the organism’s development and structure,
- age related characteristics of physiological functions, their alterations during physical and mental work,
- functional systems of the human organism, the influence of the external environment on their regulation and self-regulation in norm and pathology.

Be able

- to perform calculations based on the experimental results,
- to perform a simple statistical analysis of the experimental data,
- to interpret the results of the most common methods of functional diagnostics, that are used to detect pathologies of the blood, cardiovascular systems, lungs, liver and other organs and systems.

Master the basic skills to work with the simple medical devices and tools:

- neurological hammer, lancet, forceps, probe, a clamp etc.,
- the methods of blood pressure, pulse and breathing rate measurements, ECG, thermometry as well as the blood sampling skills from the finger to analyze the hematological parameters.

5. LITERATURE

1. *Human physiology*. Stuart Ira Fox, USA, 12th edition. ISBN 978-0-07-337811-4, 2011.
2. *Физиология человека*. Р. Шмидт, Г. Тевс, Платон Костюк, Мир, 2005.
3. Ս.Ս. Մինասյան, Ծ.Ի. Աղամյան, Ն.Վ. Սարգսյան, «Մարդու ֆիզիոլոգիա», Երևան, «Զանգակ-97», 2009թ.
4. *Մարդու ֆիզիոլոգիայի հիմունքներ*: Դ.Ն. Խուրադեղյան, Վ.Բ. Ֆանարջյան, Երևան, 1998:
5. Косицкий Г.И. *Нормальная физиология*, М., 1984г.
6. *Նորմալ ֆիզիոլոգիայի գործնական աշխատանքների ձեռնարկ*, Սարգսյան Ս.Հ., ուսումնասիրողական ձեռնարկ, ԱԲՀ, Երևան, 2004:

6. COMPONENTS

POINTS

Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	SECTIONAL COURSE		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	VI	SEMESTER	XII
ACADEMIC YEAR	2018-2019		

MADE BY	Hasmik Zakaryan
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CHAIR	Medico - biological subjects
CLINICAL BASE	St. Grigor Lusavorich MC
HEAD OF THE CHAIR	PhD Naira Hunanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
VI	XII	1	17	1	30	17	4	13	8	5		+
Total		1	17	1	30	17	4	13	8	5		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, histology, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, orthopedics and traumatology, internal diseases.

2. SHORT SUMMARY OF THE SUBJECT

"Sectional course" is a educational discipline which studies the structure of the pathologoanatomical service, it's problems and methods of investigation, analysis of biopsies and operative materials, formulation of the pathologoanatomical documentations, the methods of autopsy, the reasons of sudden death.

3. AIM OF THE SUBJECT

Aim of teaching and learning of the academic discipline "Sectional course" is to form a clinical mentality at a future professionals to organize the clinical examination of the biopsies, operative materials, and autopsies.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the problems of pathologoanatomical service;
- the logic of the pathological diagnosis, structure;
- the visual assessment of changes in tissue and organs of corpses;
- the category of clinical and pathologoanatomical diagnoses and the reasons for non-compliance.

Be able

- to complete the death certificate;
- to analyze the clinical and anatomical data of the autopsy,
- to formulate the autopsy protocol;
- to identify the pathologoanatomical diagnostic features

Master

- the skills of the biopsy material collection techniques and referral formulation for the histological examination.
- the skills of the execution of a death certificate.

5. LITERATURE

1. Rapid Review Pathology. 2th ed. / Ed.: E.F.Goljan. — Mosby, 2014.
2. Robbins Basic Pathology. 8th ed. / V.Rumar, A.C.Abbas, N.Fausto, R.N. Mitchell. — Elsevier, 2015.
3. Атлас патологии Роббинса и Котрана. Клатт Э.К.: пер. с англ. Под ред. О.Д.Мишнева, А.И.Щеголева. – М.: Логосфера, 2016.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	TOPOGRAPHIC ANATOMY AND OPERATIVE SURGERY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	II, III	SEMESTER	IV, V
ACADEMIC YEAR	2018-2019		

MADE BY	DMedSc Arsen Minasyan
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CHAIR	Surgical subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	Gagik Mkrtchyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II III	IV	4	17	4	120	68	32	36	34	18	+	
	V	3	17	3	90	51	20	31	25	14	+	
Total		7	34	7	210	119	52	67	59	32		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, histology, normal physiology, pathological physiology.

2. SHORT SUMMARY OF THE SUBJECT

"Operative surgery and topographic anatomy" is a synthetic educational discipline containing systematized scientific knowledge and techniques in the field of topographic anatomy and operative surgery, studying the relationship between organs and tissues in the topographical regions, the layer anatomy of human body regions, projections of neuro-vascular structures, principles and techniques of surgical procedures.

During the 4th semester students study the main groups of surgical instruments, general principles of tissue disconnection and connection, topographical anatomy and operative surgery of the head, neck chest and upper limb regions; during the 5th semester students study topographical anatomy and operative surgery of the abdomen, pelvis and lower limb regions.

3. AIM OF THE SUBJECT

The aim of teaching and learning the academic discipline "Operative surgery and topographic anatomy" is to provide the students with the scientific knowledge about the human topographic anatomy and the general principles of the basic operations and applying this knowledge to substantiation and performing medical procedures and surgical interventions.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the basic concepts of topographic anatomy and operative surgery, professional anatomical and clinical terminology;
- principles of structurally functional organization of the human body;
- groups, types and uses of surgical instruments,
- general principles of tissues disconnection and connection,
- principles and techniques of the typical surgical interventions;

Be able

- to list the composing layers in the topographical regions;
- to project on the skin the main organs, large vessels and nerves;
- to hold and correctly use surgical instruments;
- to apply the main surgical nodes and sutures;
- to use the acquired knowledge later in the study of clinical subjects, as well as in the future doctor's practice.

Master

- the skills of the determination by palpation the names of the main anatomical structures which forms the relief of topographical regions;
- the skills of the palpation of the pulse points of the arteries in the topographical regions;
- the skills of bleeding arrest by temporary and permanent methods.
- the skills of the English and Latin (Hellenic) terminology according to the international anatomical nomenclature;

5. LITERATURE

1. A. Nicalaev, Topographic Anatomy and Operative Surgery. Textbook; 672p.; 2018
2. H. Ellis, Clinical Anatomy: Applied Anatomy for Students and Junior Doctors, Hoboken, 2013
3. F. Netter, Atlas of Human Anatomy, 6th Edition, Amsterdam, 2014
4. Keith L. Moore Clinically Oriented Anatomy 7th Edition, 2017

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	MEDICINE OF EMERGENCY SITUATIONS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	V	SEMESTER	IX
ACADEMIC YEAR	2018-2019		

MADE BY	Gagik Mkrtchyan
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CHAIR	Surgical subjects
CLINICAL BASE	Artmed MRC
HEAD OF THE CHAIR	Gagik Mkrtchyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	IX	3	17	3	90	51	24	27	25	14		+
Total		3	17	3	90	51	24	27	25	14		

1. INTRODUCTION. *In order to master the course,*

Human Anatomy, Normal Physiology, First Aid, Physics, Geography

2. SHORT SUMMARY OF THE SUBJECT

The "Medicine of Emergency Situations" subject examines emergency situations, their characteristics, classification and ways to prevent them, and MES of disaster-affected areas during war and in peaceful conditions, the ways and measures to ensure the medical care of the population during the MES and the war, at the time of treatment of therapeutic infections. Organization and specifications of medical aid at medical evacuation stages; organization and specifications of medical aid at medical evacuation phases, organization of sanitary and anti-epidemic activities of the population, and the organization of work of medical institutions in the MES.

3. AIM AND OBJECTIVES OF THE SUBJECT

The purpose of the "Medicine of Emergency Situations" subject is to give students the knowledge about the ways to classify and prevent emergency situations, the organization of medical care for the population at the time of the emergency, and the medical care during various activities, as well as the peculiarities of the organization of therapeutic and surgical treatment of patients during medical evacuation.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

The classification, description, prevention of MES, ES and ways of protecting the population during the war, their problems, the main ways, peculiarities of medical care for therapeutic and surgical disorders during medical evacuation phases in emergency situations.

Be able

Organize hygienic and anti-epidemic activities of population, perform medical sorting and evacuation of affected persons, medical characteristic of the affected areas during the war and in peaceful conditions.

Master

The use of personal protective equipment and chemical and radiation detection equipment for medical treatment of various types of majors in the field of battlefield and rescue work, medical sorting, sanitary-hygienic events, radiation and chemical assessment.

5. LITERATURE

1. Գ. Մխոյան, Մ. Եղիազարյան, Արտակարգ իրավիճակների բժշկություն, Երևան, 2005
2. Ս. Ազատյան, Ա. Չատինյան, Մ. Ղազարյան, Ս. Դանիելյան Ծայրահեղ իրավիճակներում անվտանգ կենսագործունեություն և գոյատևման գաղտնիքները, Երևան, 2006
3. J. Tintinall, J. Stapczynski, O. Ma, D. Cline, R. Cydulka, G. Meckler, Emergency Medicine, New York, 2010.
4. K. Fong, Extreme Medicine: How Exploration Transformed Medicine in the Twentieth Century, London, 2014.
5. А.У. Бурназян, Руководство по организации медицинского обеспечения при массовых поражениях населения, т-1, Москва, 1971
6. Инструкция о работе отряда первой медицинской помощи в очагах массового поражения, Минздрав СССР, 1980
7. Положение об отряде первой медицинской помощи, Минздрав СССР, 1980

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	MEDICAL PSYCHOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	II	SEMESTER	IV
ACADEMIC YEAR	2018-2019		

MADE BY	PhD, Associate Professor Mariana Avetisyan
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CHAIR	Humanitarian subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor Armen E. Khachikyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II	IV	3	17	4	90	68	34	17	16	6		+
Total		3	17	4	90	68	34	17	16	6		

1. INTRODUCTION. *In order to master the course,*

Knowledge of biology, history and English at school level.

2. SHORT SUMMARY OF THE SUBJECT

Psychology is a science about possibilities of human consciousness, behavior, activity and worldview. The subject of clinical psychology is study of the causes of various mental problems, features of diagnosis and treatment such as distress, phobia, stress, depression, neurosis and so on. Clinical psychology also examines psychosomatic peculiarities. The course will allow students to get acquainted with clinical psychology and enrich psychological knowledge.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of the Subject

The purpose of the course is to increase the student's overall and professional knowledge by playing a very important role in preparing a future doctor, teaching the history of medicine, helping students enter the professional world.

3.2. Objectives of the Subject

- To study the history of medicine of all nations of the world, from the primordial to the present days during lectures and practical classes.
- To learn about the activities of major world medical schools. Teaching the moral principles of the most important physician-humanist Hippocrates, Galen, Ibn Sinai, Ar-Razi, Mkhitar Heratsi, Amirdovlat Amasiatsi and others contributes to the perfection of the baroque image of a young doctor.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

Knowledge of the subject of clinical psychology, personality, behavioral disorders, causes of their occurrence, diagnosis and treatment.

Be able

to self-inquire based on the study material and solve the problem related to the structure and development of human personality, his mental processes, to understand the normal and shining symptoms of his / her behavior, to apply some psychological and self-regulatory techniques.

Master

Taking into account the psychological peculiarities of the visitor, the ability to evaluate the problematic situations and the ability to express own position, taking into consideration the psychological principles, during the treatment, practical communication and interpersonal communication skills, the way in which the learners are treated for healthy lifestyles, and the means to teach them.

5. LITERATURE

1. В. Менделевич, Клиническая (медицинская) психология, Москва, 2006.
2. П. Гуревич, Клиническая психология, Москва, 2001.
3. Kring, Sh. Johnson, G. Davison, J. Obnormal, Psychology, USA, 2010.
4. P. Bennett, Obnormal and Clinical Psycholgy, New York, 2006.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PHTHISIATRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	V	SEMESTER	X
ACADEMIC YEAR	2018-2019		

MADE BY	Marjik Hovhannisyan
TELEPHONE	-
E-MAIL	-

CHAIR	Therapeutic subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD Maro Nazlukhanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	X	4	17	5	120	85	32	53	23	12		+
Total		4	17	5	120	85	32	53	23	12		

1. INTRODUCTION. *In order to master the course,*

Human Anatomy, Normal Physiology, Pathological Physiology, Propedeutics of Internal Diseases, Epidemiology

2. SHORT SUMMARY OF THE SUBJECT

"Phthisiatry" course examines epidemiology and pathogenesis of TB, immunity and allergy during TB, diagnosis, TB Custom-trends, Tuberculosis classification, primary TB pathogenesis and clinical forms, differential diagnosis, milliar and lung disseminated tuberculosis, tuberculous meningitis, lungs local and inflammatory tuberculosis, lymphatic pneumonia, lung tuberculoma, cavernosis and fibrocavernosis tuberculosis, cirrhotic tuberculosis, differential diagnosis, pathogenesis extrapulmonary tuberculosis, peripheral lymph nodes, abdominal, genitourinary tuberculosis, the TB detection, treatment, prevention, TB patients activities, communication with the shared network, pulmonological service.

3. AIM AND OBJECTIVES OF THE SUBJECT

The course aims at teaching the epidemiology, etiopathogenesis, clinical classification, diagnostic methods, distinctive diagnosis, treatment, prevention and control of TB.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

Epidemiological findings, methods of detection, pathogenesis of tuberculosis, immunity and allergies in tuberculosis, clinical manifestations of lungs tuberculosis, treatment, main linkages to the antituberculous facilities, the common medical network.

Be able

Analyze x-ray and other radiographic research methods / fluorography, tomography, CT/, use other diagnostic methods.

Master

Microscopic detection of the Tuberculosis infection agent by Cil-Nelsen method, clinical other examinations /anamnesis, physical examination, laboratory and X-ray data analysis, Tuberculin experiments/.

5. LITERATURE

1. Է. Ստամբուլյան, Ֆտիզիատրիա, Երևան, 2001
2. Մ. Սաֆարյան, Ֆտիզիատրիա, Երևան, 2004
3. М. Перельман, В. А. Корякин, И. В. Богадельникова Фтизиатрия, Москва, Медицина 2004, 518стр.
4. Фтизиопульмонология, В.Ю. Мишин, К.Г. Григорьев Москва, Медицина 2007, 497стр.
5. G.R. Minassian, N.R. Beglaryan, Basics of Phthiology; Yerevan – 2010, 80 p.
6. Crofton's Clinical Tuberculosis; Third Edition, 2009, 181 p.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	EPIDEMIOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	IV	SEMESTER	VIII
ACADEMIC YEAR	2018-2019		

MADE BY	Albert Danilov, PhD, Associate Professor Anna Sargsyan, PhD
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CHAIR	Medicobiological subjects
CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	PhD Naira Hunanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
IV	VIII	3	17	4	90	68	24	44	18	4		+
Total		3	17	4	90	68	24	44	18	4		

1. INTRODUCTION. *In order to master the course,*

Hygiene, Microbiology, Biology

2. SHORT SUMMARY OF THE SUBJECT

The Epidemiology course focuses on the issues of the subject, teaching of the epidemiological process, the transmission of infectious diseases, the types of epidemic process, the principles of preventing and combating infectious diseases, immune-prevention of infections, disinfection, epidemiology of different type infections, hospital infections, military epidemiology.

3. AIM AND OBJECTIVES OF THE SUBJECT

The purpose of the course is to explore the causes and effects of infectious diseases in human society and the acquired knowledge to use, fight, and ultimately eliminate these diseases.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

Theoretical principles of epidemiology as a medical science, the epidemiological process, the content of the epidemiological technique and the basics of sanitary-epidemiological surveillance of diseases, the structure of the anti-epidemic and preventive measures, and the problems of various medical services.

Be able

To perform a analysis of disease and mortality rate, identify the primary anti-epidemic measures in the focus of infectious diseases, to organize and maintain the necessary anti-epidemic rithm in hospitals and other medical institutions, to organize immunization.

Master

The basic methods of laboratory research in the epidemiology sphere, in the use of equipments.

5. LITERATURE

1. Ալեքսանյան Ա.Բ., «Ինֆեկցիոն և վիրուսային հիվանդությունների էպիդեմիոլոգիան և պրոֆիլակտիկան», Երևան, «Հայաստան», 1975:
2. Դեղձունյան Կ.Ս., Համբարձումյան Ա.Զ., «Համաճարակաբանություն», Երևան, 1999:
3. Черкасский Б.И. Общая эпидемиология. М., 2002.
4. World Health Organization resources – <http://www.who.int/en/>.
5. National Center for Immunization and Respiratory Diseases USA. Epidemiology and Prevention of Vaccine-Preventable Diseases. 13th Edition (2015).

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PUBLIC HEALTH		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	V, VI	SEMESTER	X, XI
ACADEMIC YEAR	2018-2019		

MADE BY	Albert Danilov, PhD in biology, Associate Professor Anna Sargsyan, PhD
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CHAIR	Medicobiological subjects
CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	PhD Naira Hunanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	X	2	17	3	60	51	22	29	7	2		+
VI	XI	2	17	2	60	34	18	16	17	9		+
Total		4	34	5	120	85	40	45	24	11		

1. INTRODUCTION. *In order to master the course,*

Hygiene, Microbiology, Epidemiology, Biology

2. SHORT SUMMARY OF THE SUBJECT

The "Public Health" course examines medical statistics, research of population health, disease and physical development, basic health care principles, urban healthcare, preventive health care, rural health care, organization of medical and sanitary aid of industrial enterprises, organization of epidemiological service, structure of the system of the Ministry of Health and the system reforming plan, social insurance and social security, workplace medical expertise, the main provisions of immune prevention, nervous-mental, cardiovascular diseases, alcoholism, traumatism, tuberculosis, HIV and cancer as the most important social health problem in healthcare questions, WHO, hygienic education of the population.

3. AIM AND OBJECTIVES OF THE SUBJECT

The purpose of the course is provide to students a complete professional understanding of the impact of public health factors, on the basis of which it will be possible to develop measures for the prevention and elimination of harmful conditions.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

Theoretical provisions of public health organization, the principles of the organization of preventive health care and sanitary-epidemiological service of the population, the basics of organizing measures to prevent the adverse effects of social and environmental factors on the health of the population, the peculiarities of the physician's work in various medical, childcare institutions and enterprises.

Be able

Provide research data, analyze demographic, morbidity and physical development indicators as well as temporary disability documents records.

Master

The method of organizing Statistic Surveys, the electronic technique used at different stages of work records, reports and other information processing.

5. LITERATURE

1. Իսկոյան Ա.Բ., «ՀՀ Էկոլոգիական իրավունք», Երևան, 2000.
2. Медик В.А., Юрьев В.С. “Общественное здоровье”, М., 2003
3. Миняева В.А., Вишнякова Н.И. “Общественное здоровье и здравоохранение”, М., 2006
4. World Health Organization resources – <http://www.who.int/en/>.
5. National Center for Immunization and Respiratory Diseases USA. Epidemiology and Prevention of Vaccine-Preventable Diseases. 13th Edition (2015).
6. Richard Dicker, et al. Principles of Epidemiology in Public Health Practice, Third Edition. 2006.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	HYGIENE		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	II	SEMESTER	III, IV
ACADEMIC YEAR	2018-2019		

MADE BY	Albert Danilov, PhD in biology, Associate Professor Anna Sargsyan, PhD
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CHAIR	Medicobiological subjects
CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	PhD Naira Hunanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II	III	4	17	4	120	68	30	38	34	18		+
	IV	2	17	3	60	51	18	33	7	2		+
Total		6	34	7	180	119	48	71	41	20		

1. INTRODUCTION. *In order to master the course,*

Biology, Chemistry, Anatomy

2. SHORT SUMMARY OF THE SUBJECT

Hygiene is examine atmosphere air, water hygiene, rational nutrition, food poisoning, soil hygiene, climate and human health, hygiene features by age groups, hygiene of medical facilities, human ecology, urbanization, household and industrial toxins and poisoning, external environment factors , their effects on the human body, occupational hygiene, peculiarities, army hygiene.

3. AIM AND OBJECTIVES OF THE SUBJECT

The main purpose of the hygiene training course is to give students basic knowledge about preventive medicine in line with international standards.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

Health Indicators, Human Health Factors (Environmental, Occupational, Climatological, Endemic, Social, Epidemiological, Psychoemotional, Hereditary), Climate and Social Disorders, Hygiene of Medical Institutions, Hygiene of medical organization of preventive measures, methods of sanitary-educational work.

Be able

Plan, analyze and evaluate the health status of the population and the external factors influencing it, take part in preventive and sanitary-hygienic assistance to the population, taking into account its socio-professional and age-gender structure, making preventive and sanitary-hygienic measures.

Master

Interpretation of the results of the Complex of Diagnostic Methods, overall assessment of population health, individual group and individual health assessment.

5. LITERATURE

1. Current Trends in Human Ecology, Edited by Priscila Lopes and Alpina Begossi. Cambridge Scholars Publishing, 2009.
2. General Hygiene & Environmental Health. Edited and Published by V. M. Zaporozhan, the State Prize-Winner of Ukraine, Academician of the Academy of Medical Sciences of Ukraine, 2005.
3. World Health Organization resources - <http://www.who.int/en/>.
4. Гигиена детей и подростков / Кучма В.Р. – М., 2013.
5. Гигиена и экология человека: учебное пособие / В.М.Глиненко и др.. – М., 2010
6. Гигиена питания / Королев А.А. – М., 2008.
7. Гигиена труда: учебник для студентов мед. вузов / под ред. Н.Ф.Измерова, В.Ф.Кириллова. – М., 2010.
8. Общая и военная гигиена / под ред. Лизунова Ю.В. и Кузнецова С.М. – Спб., 2012.
9. Основы радиационной гигиены / учебно-методическое пособие, сост. А.Н.Чураков, М.К.Иванова – Ижевск, 2009.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	GENERAL PSYCHOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	II	SEMESTER	III
ACADEMIC YEAR	2018-2019		

MADE BY	Mariana Avetisyan, PhD in psychology, Associate Professor
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CHAIR	Humanitarian subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor Armen E. Khachikyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
II	III	3	17	3	90	51	34	17	25	14		+
Total		3	17	3	90	51	34	17	25	14		

1. INTRODUCTION. *In order to master the course,*

School level knowledge of biology, history and English.

2. SHORT SUMMARY OF THE SUBJECT

Psychology is a science of the possibilities of human consciousness, behavior, activity and worldview. The subject of psychology study is mental functions, mental properties, mental states. Studying bases on mind, brain and psychology, the level of activity of the person, studying the cognitive processes of the person: senses, comprehension, memory, intuition, speech and communication, blur attitudes, capacities, abilities and emotions.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of the Subject

The purpose of the course study is to provide students the knowledge about clinical psychological science, personality disorders, behavioral disorders, mood disorders, causes of their occurrence, diagnosis and treatment.

3.2. Objectives of the Subject

Course objectives are to introduce the history of clinical psychological development, to impart knowledge to personal, behavioral disorders, causes of their occurrence, diagnosis and treatment, the ability to present theoretical and practical knowledge in oral and written speech, methods of studying cognitive processes and different aspects of personality self-fulfillment, presentation of results and conclusions, and development of capacity and capacities of the community.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

Psychology subject, tasks, methods, stages of development of modern psychology (basic directions), cognitive processes of psychology (sense, perception, attention, memory, thinking, imagination, speech, personality psychology / personality theories, character, temperament, emotions, abilities, motivation /.

Be able

Psychological knowledge can be used in professional activities, in developing tactics of medical-psychological treatment, regulating relationships with visitors, colleagues, research, preventive and enlightenment work, taking into account the psychological peculiarities of the visitor and the patient's condition during treatment, to conduct practical and interpersonal negotiations, work in the public, find and apply responsible managerial decisions in the form of different opinions and his/ her The professional competence.

Master

Of the psychological peculiarities of the visitor, the ability to evaluate the problematic situations and the ability to express own position, taking into consideration the psychological principles, during the treatment, practical communication and interpersonal communication skills, the way in which the learners are treated for healthy lifestyles, and the means to teach them.

5. LITERATURE

1. Ա. Նալչազյան, Հոգեբանության հիմունքներ, Երևան 1997
2. Р. Немов, Психология, Москва, 1997
3. С. Рубинштейн, Основы общей психологии, СПб., 2000.
4. Л. Столяренко, Основы психологии, Ростов н / Д., 1996.
5. Н. Gleitman, Y. Gross, D. Reisberg; Psychology /eight edition/, London, 2011.
6. P. Grey, Psychology /fifth edition/, Boston, 2006.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	IMMUNOLOGY, CLINICAL IMMUNOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	VI	SEMESTER	XII
ACADEMIC YEAR	2018-2019		

MADE BY	Anna Sargsyan, PhD
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CHAIR	Therapeutic subjects
CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	PhD Maro Nazlukhanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
VI	XII	2	17	2	60	34	16	18	17	9		+
Total		2	17	2	60	34	16	18	17	9		

1. INTRODUCTION. *In order to master the course,*

Biology, Latin, Hystology, Embryology, Cytology, Human Anatomy, Normal Physiology

2. SHORT SUMMARY OF THE SUBJECT

"Immunology, Clinical Immunology" course examines the protection layers of organisms, immune system and it's mechanisms, lymphocytes and it's types, types of immunity, mechanisms of immune response, regulation, antigen-antibody interactions, immunoglobulins and their types, immune tolerance, immun analysis, allergy, types, vaccination.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of the "Immunology, Clinical Immunology" training course is to prepare students for the independent clinical diagnosis of symptoms, based on the knowledge of general immunology.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

Immune system structure, immune response mechanisms, immunity types, cellular basics.

Be able

To evaluate the human immune system according to levels, differentiate the immune response from the abnormal one, interpret the results of immunological laboratory tests.

Master

Methods of immune diagnose, assessment methods of human immune status, and appropriate drug administration.

5. LITERATURE

1. A European Declaration on Immunotherapy/ European Academy of Allergy and Clinical Immunology, 2015.
2. ACAAI review for the allergy and immunology boards/ American College of Allergy, Asthma and Immunology, 2013.
3. Essential Clinical Immunology / Edited by J.B. Zabriskie – Cambridge University Press, 2009.
4. Global Atlas of Allergy/ European Academy of Allergy and Clinical Immunology, 2014.
5. Immunology at a Glance / J.H.L. Playfair, B.M. Chain – London, 2004.
6. International Consensus On (ICON) Allergy Immunotherapy (AIT)/ European Academy of Allergy and Clinical Immunology, 2015.
7. World Allergy Organization resources - <http://www.worldallergy.org/> .

6. COMPONENTS	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	INFECTION DISEASES		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	IV-V	SEMESTER	VIII-IX
ACADEMIC YEAR	2018-2019		

MADE BY	Anahit Mkrtchyan
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CHAIR	Clinical Subjects
CLINICAL BASE	“Nork “ infection clinical republican hospital
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
IV	VIII	3	17	3	90	51	18	33	25	14		+
V	IX	4	17	4	120	68	22	46	34	18	+	
Total		7	34	7	210	119	40	79	59	32	+	

1. INTRODUCTION. <i>In order to master the course,</i> Epidemiology, Public Health, Propedeutics of Internal Diseases, Therapy
2. SHORT SUMMARY OF THE SUBJECT The course provides knowledge of infection, infection processes and classification of infectious diseases, principles of diagnosis and treatment viral hepatitis: a, b, c, d, e, etiopathogenesis, clinical and epidemiological features, diagnosis and treatment principles, Icerinosis infection (intestinal issineriosis, pseudotuberculosis) clinical features and classifications, diagnosis and treatment principles, cholera, viral diarrhea, etiology, clinical features, distinctive diagnosis, principles of diagnosis and treatment, brucellosis, clinical and epidemiological features, clinical classification, diagnosis and treatment principles , salmonellosis, tif-parathyroidism, abdominal typhus, paratyphosis, a, b, measles, rubella.
3. AIM AND OBJECTIVES OF THE SUBJECT The purpose of the course is to teach students the etiology of infectious diseases, epidemiology, pathogenesis, clinics, diagnostic and therapeutic principles.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

The etiopathogenic and epidemiological characteristics of infectious diseases, pathognomic symptoms.

Be able

To interpret and combine clinical and paraclinical data, make preliminary clinical diagnosis, make additional research and treatment plan, take a closer look at the patient, assign necessary laboratory-instrumental research, diet, treatments, and interpret correctly the laboratory-instrumental research data.

Master

Organizing the work of all Laboratory Services for all possible diagnostic works.

5. LITERATURE

1. А.Ф. Блюгер, "Вирусные гепатиты", Москва, 1990г.
2. В.И. Покровский, "Руководство по инфекционным болезням", Москва, 1990г.
3. В.И. Покровский, "Сальмонеллез", Москва, 1995г.
4. В.Н. Тимченко, «Инфекционные болезни у детей», Москва, 2001 г.
5. Е. П. Шувалова, "Инфекционные болезни", Москва, 1995г.
6. К.П. Майер, «Гепатит и его последствия», Москва, 2001г.
7. Н.Д. Ющук, «Лекции по инфекционным болезням», Москва, 1999г.
8. Н.И. Нисевич, Учайкин В.Ф. "Детские инфекционные болезни", Москва, 1995г.
9. С.Н. Соринсон, "Вирусные гепатиты", Москва, 1995г.
10. Ю.В. Лобзин, «Руководство по инфекционным болезням», Москва, 2000г.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	RADIODIAGNOSTICS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	III	SEMESTER	V
ACADEMIC YEAR	2018-2019		

MADE BY	Marie Sakanian PhD Gayane Ayvazyan (external stakeholder)
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CHAIR	Clinical Subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
III	V	3	17	3	90	51	20	31	25	14		+
Total		3	17	3	90	51	20	31	25	14		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, chemistry, physics, bioethics, psychology, normal physiology.

2. SHORT SUMMARY OF THE SUBJECT

" Radiology" is a educational discipline which studies the principles of radiological diagnostics, computed tomography, nuclear resonance, radioisotope diagnosis. It's allowing to detect minor changes in inaccessible organs.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of teaching and learning of the academic discipline " Radiology" is to prepare the students of the General medicine department with the clinical work. The main provisions are included in the renewal and strengthening of theoretical knowledge, practical skills improvement, development of a radiological research method.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- all known radiation medical devices, principles of radiation diagnostics: the methods of the general radiography, contrast radiography, computed tomography, nuclear resonance, radioisotope diagnosis, which allow to detect minor changes in inaccessible organs.

Be able

- to detect diagnostic data on the X-ray images and based on that data to make the diagnostic conclusions.

Master

- the skills about the principles of the modern radiological equipment.

5. LITERATURE

1. Գ. Ավետիսյան, Հ. Էդիլյան, Ճանապարհային ախտորոշում, Երևան, 2012,
2. J. Benseler, The Radiology Handbook, Athens, 2006,
3. M. Chen, T. Pope, D. Ott, Basic Radiology, New York, 2011,
4. Ю. Лишманова, В. Чернова, Радионуклидная диагностика для практических врачей, Томск, 2004.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	ENDOCRINOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	VI	SEMESTER	XI
ACADEMIC YEAR	2018-2019		

MADE BY	Irina Yeremyan
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CHAIR	Therapeutic subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC
HEAD OF THE CHAIR	PhD Maro Nazlukhanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
VI	XI	2	17	2	60	34	14	20	17	9		+
Total		2	17	2	60	34	14	20	17	9		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, chemistry, physics, bioethics, normal physiology, psychology, pharmacology.

2. SHORT SUMMARY OF THE SUBJECT

"Endocrinology" is a educational discipline which is examines the endocrine glands structure, functional features, the clinic, diagnostic and treatment of the most common endocrinological diseases. The course is part of a clinical training module of the therapy.

3. AIM AND OBJECTIVES OF THE SUBJECT

Aim of subject: aim of teaching and learning of the academic discipline " Endocrinology" is to study the endocrine glands of human body, their role and function; regulating mechanisms; diseases of endocrine gland, their clinic, early detection and diagnostics, differential diagnostics and modern methods of treatment.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the clinical picture of the most common endocrine diseases, the specifics of possible complications; diagnostics, differential diagnostics and modern methods of treatment.
- the mass methods of early detection of diabetes, the technique of their conduct.
- the technique for determining blood sugar, its variations and clinical forms of expression.
- the insulin types, injectable dosages and techniques.

Be able

- to determine the condition of the patient by collect of the anamnesis, conduct a patient's / relatives' inquiries, to conduct a physical examination of the patient (palpation, percussion, auscultation,
- to do sugar test by glucometers, blood and urine PH- testing, to calculate the insulin doses and to make its injections,

Master

- the skills of the endocrine patient's clinical examination,
- the skills of the ultrasound and X - ray examinations of endocrine glands,
- the skills of the laboratory tests to determine the sugar in the urine and in the blood.

5. LITERATURE

1. J. L. Jameson, Harrison's Endocrinology, New York, 2010
2. John Wass, Oxford handbook of endocrinology and diabetes; Third edition; 2009.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PSYCHIATRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	VI	SEMESTER	XII
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Anna Chilingaryan
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CHAIR	Clinical Subjects
CLINICAL BASE	-
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
VI	XII	3	17	3	90	51	24	27	25	14		+
Total		3	17	3	90	51	24	27	25	14		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: anatomy, biology: physics, biochemistry, chemistry; physiology, pathologic physiology, pathological anatomy; histology, internal diseases, neurology, medical psychology, pharmacology, clinical pharmacology.

2. SHORT SUMMARY OF THE SUBJECT

"Psychiatry" is a educational discipline which includes the knowledge and skills about the causes of mental illness, clinical manifestations, prevention, treatment and appropriate care. "Psychiatry" course consists of "general psychopathology" and "private psychiatry" sections.

3. AIM AND OBJECTIVES OF THE SUBJECT

Aim of subject: aim of teaching and learning of the academic discipline "Psychiatry" is to study the basis of psychopathology, certain psychiatric diseases, their clinical manifestations, diagnosis and differential diagnostic characteristics, to communicate with other clinical disciplines, and to form a clinical mindset of the student's based the knowledge acquired during the course.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the clinical manifestations of mental disorders;
- the pathological expressions (symptoms) of certain types of mental cognitive activities;
- the clinical manifestations of mental disorders / psychotic, neurotic /

Be able

- to give the right assessment to existing problems when meet the existing mental disorders, , to distinguish individual manifestations of mental disorders in practice,
- to analyze the peculiarities of psychic processes and behavioral manifestations in the case of various mental disorders.

Master

- the skills of the ethical norms in psychiatry.
- the skills of the prophylactic assessment and dispensary plan.

5. LITERATURE

1. A. Hibbert, A. Godwin, F. Dear, P. Raven, Rapid Psychiatry, Malden, 2004,
2. J. Kay, A. Tasman, Essentials of Psychiatry, Sussex, 2006.
3. Oxford Handbook Of Psychiatry (1st Edition); Oxford Medical Handbooks; 2009.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PEDIATRICS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	V, VI	SEMESTER	X, XI
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Associate Professor, Sahakanush Arustamyan Mariana Arustamyan (external stakeholder)
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CHAIR	Clinical Subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	X	4	17	4	120	68	36	32	34	18		+
VI	XI	5	17	5	150	85	36	49	42	23	+	
Total		9	34	9	270	153	72	81	76	41		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: anatomy, stomatology, normal physiology, biology, microbiology, pathologic physiology, pathological anatomy, pharmacology, internal diseases, surgery, epidemiology, anesthesia and resuscitation

2. SHORT SUMMARY OF THE SUBJECT

"Pediatrics " is a educational discipline which includes the knowledge and skills about all the ages of childhood (postnatal periods), revealing their physiological and anatomical differences, shaping thinking about the health and physical development, evaluation and correction of pathologies of children of different ages.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of teaching and learning of the academic discipline " Pediatrics" is to study the peculiarities of neonatal care; the criteria for assessing of full term and preterm infants, the most common diseases of neonatal period, assessment of their severity and organization of treatment; the diagnosis, the differentiation and prevention of the most common diseases of older children, as well as the assessment of children's emergency situations and the ability to organize their care.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the anatomo-physiological peculiarities of organs and system of organs in the childhood;

- the child's rational nutrition issues;
- the classification of childhood diseases: etiology, clinics, diagnostics, treatment, prophylactic methods of diseases prevention and rehabilitation of patients.
- the prophylactic methods to prevent the spreading of children infections.

Be able

- to determine the condition of the child by collect of the anamnesis, conduct a patient's / relatives' inquiries, to conduct a physical examination of the patient (palpation, percussion, auscultation, check the pulse, measure blood pressure), evaluating the patient's condition and determining the necessary of the medical care, formulate a preliminary diagnosis;
- to determine the extent of additional diagnostic investigations to formulate a final diagnosis;
- to choose the type of individualized treatments for the patients,
- to provide urgent assistance,
- to provide timely hospitalization of patients with need for inpatient treatment

Master

- the skills of the general clinical research methods, laboratory and instrumental research results analysis,
- the skills of the clinical diagnostic algorithm, the initial diagnostic algorithm, and then referring the patient to the appropriate physician-specialist,
- the skills of the first medical aid methods and the main medical diagnostic and pediatric measures during the life-threatening situations.
- the skills of the assessment of physical and neurological development of children.

5. LITERATURE

1. Methodical aids of chair.
2. E. Crain , J. Gershel , S. Cunningham, “Clinical Manual of Emergency Pediatrics”, Cambridge, 2010.
3. E. Crain, “Clinical Manual of Emergency Pediatrics”, Cambridge, 2011.
4. Robert M. Kliegman, , “Nelsen Textbook of Pediatrics”, 20 edition, Elsevier, 2016.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	DERMATOVENEROLOGIC DISEASES		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	IV	SEMESTER	VII
ACADEMIC YEAR	2018-2019		

MADE BY	Karine Avetyan Miqayel Mkhitarian		
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CHAIR	Clinical Subjects		
CLINICAL BASE	"Surb Grigor Lusavorich" MC		
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan		

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
IV	VII	4	17	4	120	68	24	44	34	18		+
Total		4	17	4	120	68	24	44	34	18		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: anatomy, pathological anatomy, histology, pathological physiology, normal physiology, biochemistry, microbiology, pharmacology.

2. SHORT SUMMARY OF THE SUBJECT

"Dermatovenerologic diseases" is a educational discipline which includes the knowledge and skills about the frequent skin diseases and sexually transmitted disease, methods of their prevention, diagnosis and treatment.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of teaching and learning of the academic discipline "Dermatovenerologic diseases" is to study the common and private dermatology, etiology and pathogenesis of dermatoses and sexually transmitted diseases, their diagnostical and treatment methods.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the basics of prevention and diagnosis of skin disorders, basic skin expressions that occur during somatic diseases,
- sexually transmitted diseases and their prevention, diagnosis, treatment and transmission paths;
- the clinical manifestations of mental disorders / psychotic, neurotic /

Be able

- to do the clinical examination of patients;
- to assign the necessary diagnostic tests,
- to diagnose disease or to put preliminary diagnosis,
- to create a treatment plan and evaluate the effectiveness of treatment,
- to make a short-term and long-term prognosis of the disease,
- to inform patients about preventive methods for the listed above pathologies.

Master

- the skills of the physical and clinical research methods for skin and visible mucous membranes, laboratory and instrumental research results analysis and identification of their primary and secondary morphological elements.
- the skills of the prophylactic assessment and dispensary plan.

5. LITERATURE

1. L. Goldsmith, S. Katz, B. Gilchrest, A. Paller, D. Leffell, K. Wolff, Fitzpatrick's Dermatology in General Medicine, 8th edition, New York, 2008,
2. Thomas P. Habif - Clinical Dermatology, 2009, 5th Edition, Amsterdam, 2016.
1. Rook's Textbook of Dermatology, 8th Edition, 4 Volume, 2010.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	INTERNAL DISEASES		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	IV - VI	SEMESTER	VII - XII
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Maro Nazlukhanyan PhD, Associate Professor Armen Gasparyan
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CHAIR	Therapeutic subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC
HEAD OF THE CHAIR	PhD Maro Nazlukhanyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
IV	VII	6	17	6	180	102	34	68	51	27	+	
	VIII	4	17	6	120	102	34	68	10	8	+	
V	IX	3	17	3	90	51	20	31	26	13	+	
	X	3	17	3	90	51	20	31	14	25	+	
VI	XI	4	17	4	120	68	26	42	34	18		+
	XII	3	17	4	90	68	26	42	14	8	+	
Total		23	102	26	690	442	160	282	149	99		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, chemistry, physics, bioethics, histology, normal physiology, psychology, pathologic anatomy, pathologic physiology, pharmacology, clinical pharmacology, internal diseases propedeutics

2. SHORT SUMMARY OF THE SUBJECT

" Internal Diseases " is a educational discipline which is the basis for practical clinical training of doctors. It forms the basics of clinical logic, important principles of the patient's immediate investigation, the analysis of the results of many contemporary instrumental and laboratory investigations. This educational discipline studies cardiovascular diseases, respiratory system diseases, gastrointestinal diseases, endocrine diseases, urogenital system diseases. The course studies the clinic of diseases, the mechanisms of pathological symptoms and syndromes, the indications and contraindications of the modern medicines use, mechanisms of their actions.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of teaching and learning of the academic discipline “ Internal Diseases” is to train doctors who can carry out preventive, diagnostic, therapeutic, educational, training, organizational and research activities.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the etiology and pathogenesis of the most frequently encountered diseases, pathogenesis, prevention measures, modern classification of diseases;
- the clinical picture of the most common diseases in different age groups, the specifics of possible complications;
- the diagnostic methods for the therapeutic profile of the patients: clinical, laboratory, instrumental contemporary methods of examination.
- the clinical and pharmacological characteristics of the main groups of pharmaceutical preparations and their rational selection during for the therapeutic patients in planed and urgent situations.

Be able

- to participate in the organization and provision of preventive medical assistance to the population, based on its social professional and age-gender structure,
- to determine the condition of the patient by collect of the anamnesis, conduct a patient's / relatives' inquiries, to conduct a physical examination of the patient (palpation, percussion, auscultation, check the pulse, measure blood pressure), evaluating the patient's condition and determining the necessary of the medical care, formulate a preliminary diagnosis;
- to determine the extent of additional diagnostic investigations to formulate a final diagnosis;
- to choose the type of individualized treatments for the patients,

Master

- the skills of the general clinical research methods, laboratory and instrumental research results analysis,
- the skills of the clinical diagnostic algorithm, the initial diagnostic algorithm, and then referring the patient to the appropriate physician-specialist,
- the skills of the first medical aid methods and the main medical diagnostic and therapeutic measures during the life-threatening situations.

5. LITERATURE

1. Է. Նազարեթյան, Ա. Գասպարյան, Ներքին հիվանդություններ, Երևան, 2004
2. Հ. Մաթևոսյան, Թորաքալուծության դասընթաց, Երևան, 2003
3. Ռ. Ստամբուլցյան, Լ. Միրալեյան, Լ. Շուշանյան, Ներքին հիվանդություններ, Ռ. Ստամբուլցյանի ընդհանուր խմբագրությամբ, Երևան, 1988
4. Վ. Հարությունյան, Ե. Միրալեյան, Է. Կոտոյան, Ներքին հիվանդություններ, Երևան, 2000
5. А. О कोरोков, диагностика шнутренных болезней, Москва, 2003
6. А. Струтынский, А. Баранов, Г. Ройтберг, Ю. Галоненков, Основы семиотики заболеваний внутренних органов, Атлас, Москва, 2005
7. А. Струтынский, Г. Ройтберг, Внутренние болезни, Основы семиотики заболеваний внутренних органов, Атлас, Москва, 2003

8. В. Милькаманавич, Атлас клинического исследования, учеб. пособие, Москва, 2006	
9. B. Walter and others, Davidson's Principles and Practice of Medicine, 22nd Edition, Amsterdam, 2014	
10. D. Kasper, A. Fauci and others, Harrison's Principles of Internal Medicine, 19th Edition, New York, 2015	
6. COMPONENTS	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10
7. ASSESSMENT RATING SCALE	

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PROPAEDEUTIC OF INTERNAL DISEASES		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	III	SEMESTER	V; VI
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Maro Nazlukhanyan
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CHAIR	Therapeutic subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC
HEAD OF THE CHAIR	PhD Maro Nazlukhanyan:

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
III	V	6	17	6	180	102	42	60	51	27		+
	VI	4	17	5	120	85	38	47	30	5	+	
Total		10	34	11	300	187	80	107	81	32		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, chemistry, physics, bioethics, psychology, normal physiology

2. SHORT SUMMARY OF THE SUBJECT

" Propaedeutic of internal diseases " is a educational discipline which is an introductory course in the specialty of internal medicine, the science which study the symptoms of diseases, methods of their detection (diagnosis), the logic of diagnosis and treatment principles. The course includes the following sections: physical diagnosis, laboratory and instrumentation techniques, functional diagnosis, general pathology

3. AIM AND OBJECTIVES OF THE SUBJECT

Aim of subject: aim of teaching and learning of the academic discipline " Internal Diseases " is to study the symptoms of the various organs and systems disease, their etiology, subjective and objective examinations, clinical and paraclinical diagnostic methods; evaluate the results and the justification and principles of the diagnosis of the disease.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the etiology and pathogenesis of the most frequently encountered diseases, pathogenesis, prevention measures, modern classification of diseases;
- the clinical picture of the most common diseases in different age groups, the specifics of possible complications;
- the diagnostic methods for the therapeutic profile of the patients: clinical, laboratory, instrumental contemporary methods of examination.
- different treatment methods and guidelines for their use, mechanisms of medical physical training and physiotherapy

Be able

- to determine the condition of the patient by collect of the anamnesis, conduct a patient's / relatives' inquiries, to conduct a physical examination of the patient (palpation, percussion, auscultation, check the pulse, measure blood pressure), evaluating the patient's condition and determining the necessary of the medical care, formulate a preliminary diagnosis;
- show first aid in emergency situations, in the focus of infection and in emergencies, complete the illness reporter, write off a prescription.

Master

- the skills of the correct methods of filling out the medical documentations,
- the skills of the general clinical examination methods,
- the skills of the initial diagnostic algorithm, and then referring the patient to the appropriate physician-specialist,

5. LITERATURE

1. Methodical aids of chair.
2. B. Walter and others, Davidson's Principles and Practice of Medicine, 22nd Edition, Amsterdam, 2014
3. D. Kasper, A. Fauci and others, Harrison's Principles of Internal Medicine, 19th Edition, New York, 2015
4. 6. Mayo Clinic - Internal Medicine Internal Medicine Board Review, Mayo clinic press Amsterdam, 2015

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

COURSE'S NAME	NEUROLOGY		
COURSE'S TYPE	Compulsory		
EDUCATIONAL LEVEL	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General medicine		
DEPARTMENT	General medicine		
YEAR	III, IV	SEMESTER	VI, VII
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Narek Mkrtchyan
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CHAIR	Clinical Subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

ԴԱՍԱՆԹԱՅԻ ԾԱՎԱԼԸ

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures hours	Practice hours	Individual work hours	Consultation by lecturer	Examination	Test
III	VI	4	17	4	120	68	22	46	34	18		+
IV	VII	3	17	3	90	51	18	33	26	13	+	
Total		7	34	7	210	119	40	79	60	31		

1. PRECONDITION; *In order to master the course it is necessary;*

Human Anatomy, Chemistry, Physics, Bioethics, Histology, Normal Physiology, Psychology, Pathologic Anatomy, Pathological Physiology, Pharmacology, Clinical Pharmacology, Propedeutics of Internal Diseases.

2. SHORT SUMMARY OF THE SUBJECT

Neurology studies the human nervous system, its peculiarities by categories, diseases, distinguished diagnosis and treatment.

3. AIM OF THE SUBJECT

The aim of the subject is to teach the patterns of development of the nervous system, research methods, the causes of illness, pathology and clinical manifestations, introduce with the blood circulation disorders of brain, as it is considered as the main in neurology, which is associated with the peculiarities of heart function, urogenital system and endocrine gland.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know the basics of neurology, pathogenesis of major diseases, clinic, diagnosis, treatment, application of the necessary therapeutic measures in case of comatose condition (first aid), the use of basic therapeutic (medicinal) schemes, during epilepsy, trauma, trachea (from different reasons).

Be able to perform patient's research methodology, a distinctive diagnosis of diseases.

Master spinal puncture, instrumental researches interpretation with interdisciplinary professions, differentiate between diabetic or uremic cough epileptic and post-traumatic coma.

5. LITERATURE

1. C. Mirzoyan "Nervous Diseases", Yerevan, 1988.
2. E. Gevorgyan, A. Hakobyan, H. Stepanyan, "Neurology", Yerevan, 1990.
3. M. Baehr "Duus' Topical Diagnosis in Neurology: Anatomy, Physiology, Signs, Symptoms", Stuttgart, 2005.
4. A. Triumfov, "Topical diagnosis of diseases of the nervous system", Moscow, 2007.
5. Diseases of the nervous system, / ed. Corresponding member RAMS, prof. N.N. Yakhno, prof. Dr. Shtulman /, in 2 volumes, Moscow, 2001.
6. D. Shtulman, O. Levin, "Neurology", Moscow, 2008.
7. T. Skorolets, A. Skorolets, A. Skorolets, "Propaedeutics of Clinical Neurology", Moscow, 2004.

6. ASSESSMENT COMPONENTS

	Point
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT SYSTEM OF /RATING/ SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	POLYCLINIC THERAPY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	VI	SEMESTER	XII
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Maro Nazlukhanyan
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CHAIR	Therapeutic subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC
HEAD OF THE CHAIR	PhD Maro Nazlukhanyan:

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
VI	XII	3	17	3	90	51	20	31	26	13		+
Հոդվածներ		3	17	3	90	51	20	31	26	13		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, chemistry, physics, bioethics, histology, normal physiology, psychology, pathological anatomy, pathology physiology, pharmacology, clinical pharmacology, propedeutics of internal diseases.

2. SHORT SUMMARY OF THE SUBJECT

" Polyclinic therapy" is a educational discipline which is studies the list, structure, service spheres and peculiarities of the ambulatory polyclinic institutions, the main forms of policlinic service.

3. AIM AND OBJECTIVES OF THE SUBJECT

Aim of subject: aim of teaching and learning of the academic discipline “ Internal Diseases” is to train doctors who can carry out preventive, diagnostic, therapeutic, educational, training, organizational and research activities.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

- the basics and the scope of the policlinic therapy, the areas of medical service in the polyclinic;
- the principles of medical treatment and preventive maintenance of population by the general profile doctor;
- the immediate therapeutic interventions in urgent situations and organizational measures for further professional treatment.

Be able

- to use the modern methods of diagnosis, treatment and prevention of diseases.

Master

- the skills of the general clinical research methods, laboratory and instrumental research results analysis,
- the skills of the clinical diagnostic algorithm, the initial diagnostic algorithm, and then referring the patient to the appropriate physician-specialist,
- the skills of the first medical aid methods and the main medical diagnostic and therapeutic measures during the life-threatening situations.

5. LITERATURE

1. B. Walter and others, Davidson's Principles and Practice of Medicine, 22nd Edition, Amsterdam, 2014
2. D. Kasper, A. Fauci and others, Harrison's Principles of Internal Medicine, 19th Edition, New York, 2015

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	OPHTHALMOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	V	SEMESTER	IX
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Anahit Vardanyan
TELEPHONE	-
E-MAIL	-

CHAIR	Clinical Subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC; "Shengavit" MC.
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	IX	4	17	4	120	68	24	44	34	18		+
Total		4	17	4	120	68	24	44	34	18		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, surgical diseases, histology, clinical pharmacology, internal diseases, orthopedics and traumatology.

2. SHORT SUMMARY OF THE SUBJECT

" Ophthalmology " is a educational discipline which studies the eye in normal conditions (anatomy and physiology of eye, orbit and accessory structures; central and peripheral vision, binocular vision, eye refraction and accommodation) and in case of surgical and medical diseases, disorders and injuries the diagnosis and treatment of: complications of different types of refraction, types of conjunctiva disorders, diseases of the cornea, diseases of retina, lens diseases, glaucoma, lacrimal gland diseases; traumas of eye,

3. AIM OF THE SUBJECT

Aim of subject " Ophthalmology " is to teach the ways for the diagnosis and treatment of eye and it's accessory organs diseases, disorders and injuries.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the main ophthalmological disorders and diseases: their etiology pathogenesis, clinic, diagnostic features and the most effective treatments.

Be able

- to organize for ophthalmological patient's adequate diagnosis and treatment.

Master

- the skills of the differential diagnosis for ophthalmological diseases and disorders.

5. LITERATURE

1. Oxford Handbook of Ophthalmology; Alastair Denniston (Editor); third edition; Oxford, Medical Handbooks; 2014. – 1027p.
2. Kanski's Clinical Ophthalmology; 8th Edition; Saunders Ltd. 2015. – 928p.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	ANESTHESIOLOGY AND RESUSCITATION		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	VI	SEMESTER	XII
ACADEMIC YEAR	2018-2019		

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CHAIR	Surgical Subjects
CLINICAL BASE	"Artmed" MRC.
HEAD OF THE CHAIR	Gagik Mkrtchyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	IX	4	17	4	120	68	24	44	34	18		+
Total		4	17	4	120	68	24	44	34	18		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: Human Anatomy, Pathological Anatomy, Normal Physiology, Pathological Physiology, Operative Surgery and Topographic Anatomy, General Surgery, Surgical Diseases, Histology, Clinical Pharmacology, Internal Diseases, Orthopedics and Traumatology.

2. SHORT SUMMARY OF THE SUBJECT

"Anesthesiology and resuscitation " is a important scientific and practical discipline which studies the mechanisms and methods of anesthesia, as well as restoration of the functions of vital systems and organs.

The discussed issues are: Preoperative, intraoperative, postoperative period, the patient's preoperative assessment. Local anesthesia, types, application methods, indications. General anesthesia, indications types, application methods. basics of organ disorders in general anesthesia; Basics of organs dysfunctions during general anesthesia: Disorders of cardiovascular system; cardiopulmonary resuscitation. Monitoring methods of vital organs and organ-systems activity during resuscitation. Pulmonary edema; asphyxia. Artificial respiration guidelines, application methods. Tracheostomy, tracheostomy, indications, principles, techniques. Homeostasis disorders, detoxification therapy principles; Anti-shock therapy.

3. AIM OF THE SUBJECT

Aim of subject " Anesthesiology and resuscitation " is to teach the mechanisms and methods of anesthesia, as well as restoration of the functions of vital systems and organs.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

- Indications of various ways of anesthesia, contraindications, techniques, possible complications.
- Indicated for resuscitation patient statuses and possible treatment methods in case of their occurrence.

Be able

- to diagnose and characterize the clinical death with all its characteristics, as well as to comment the possible resuscitation interventions;
- to diagnose and characterize the disorders of vital organs and system of organs, as well as to comment the possible resuscitation interventions;

Master

- the skills of the tracheal intubation;
- the skills of the tracheostomy, tracheostomy performance
- the skills of the intravenous and intracranial catheterizations;
- the skills of the preparation of systems for intensive therapy and blood transfusion;
- the skills of the performance of artificial respiration,
- the skills of the indirect cardiac massage technique, gastric lavage technique.

5. LITERATURE

1. Methodical aids of chair.
2. Morgan and Mikhail's Clinical Anesthesiology, J. Wasnick, J. Butterworth, D.Mackey; Lange; 2013.
3. Anesthesia and Resuscitation: A Houseman's Guide; by R. B. Holland MBBS FFARACS FANZCA FHKCA and R. D. M. Jones; 1 edition (July 2, 1997); 320p.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	OTORHINOLARYNGOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	V	SEMESTER	IX
ACADEMIC YEAR	2018-2019		

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CHAIR	Clinical Subjects
CLINICAL BASE	"Surb Grigor Lusavorich" MC; No. 12 polyclinic
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	IX	4	17	4	120	68	24	44	34	18		+
Total		4	17	4	120	68	24	44	34	18		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, surgical diseases, histology, clinical pharmacology, internal diseases, orthopedics and traumatology

2. SHORT SUMMARY OF THE SUBJECT

" Otorhinolaryngology " is a educational discipline which studies ear, nose, larynx and pharynx in normal conditions (anatomy and physiology) and in case of the surgical and medical diseases of the ear, nose, and throat (ENT) and related structures of the head and neck. This discipline includes: rhinology (focused on the diagnosis and treatment of diseases, disorders and injuries affecting the nasal skeleton and nasal cavity and sinuses), otology focused on the diagnosis and treatment of diseases, disorders and injuries of the ear and connecting structures), laryngology (focused on the diagnosis and treatment of diseases, disorders and injuries affecting the larynx and vocal apparatus), pharyngology (focused on the diagnosis and treatment of diseases, disorders and injuries affecting the pharynx).

3. AIM OF THE SUBJECT

Aim of subject " Otorhinolaryngology " is to teach the ways for the diagnosis and treatment of nose, ear, larynx and pharynx diseases, disorders and injuries.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the main otorhinolaryngological disorders and diseases: their etiology pathogenesis, clinic, diagnostic features and the most effective treatments.

Be able

- to organize for otorhinolaryngological patient's adequate diagnosis and treatment.

Master

- the skills of the differential diagnosis of otorhinolaryngological diseases and disorders.

5. LITERATURE

1. Methodical aids of chair.
2. Y. Chan, J. Goddard, "KJ Lee's Essential Otolaryngology", New York, 2015.
3. P. Dhingra, "Diseases of Ear, Nose and Throat", Chennai, 2013.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	OBSTETRICS AND GYNECOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	IV-VI	SEMESTER	VII-XII
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Ginarga Martirosyan Anna Khachatryan (external stakeholder)
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CHAIR	Clinical Subjects
CLINICAL BASE	"Shengavit" MC.
HEAD OF THE CHAIR	PhD, Associate Professor S. Arustamyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
IV	VII	4	17	4	120	68	24	44	34	18		+
	VIII	4	17	4	120	68	22	46	34	18	+	
V	IX	2	17	2	60	34	14	20	17	9	+	
	X	2	17	2	60	34	4	20	17	9	+	
VI	XI	3	17	3	90	51	18	33	26	13		+
	XII	2	17	3	60	51	18	33	6	3	+	
Total		17	102	18	510	306	100	196	134	70		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: Physics, human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, surgical diseases, histology, clinical pharmacology, propaedeutic of internal diseases, internal diseases, orthopedics and traumatology.

2. SHORT SUMMARY OF THE SUBJECT

" Obstetrics and gynecology " is a educational discipline which studies the physiology and pathology of the female genital system, the state and activity of the female genital organs in normal and pathological conditions, the biological functions of a woman, including childbirth. The subject includes the following chapters: physiological and pathological obstetrics, conservative and surgical gynecology.

3. AIM OF THE SUBJECT

Aim of subject " Obstetrics and gynecology " is:

- to teach students the basics of the female body physiology, methods of obstetric aid; etiopathogenesis, clinic, symptoms, diagnosis, treatment and prevention of the main types of gynecological and obstetric pathology;

- the application of acquired knowledge in future practice to diagnose pregnancy, determine the tactics of management of patients with physiological and complicated pregnancy, choose an adequate obstetric aid methods, and provide emergency care in a number of pathological conditions, prevention of postpartum and postoperative complications; diagnosis, treatment and prevention of the main gynecological pathologies.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- The theoretical problems of obstetrics and gynecology;
- The survey plan for a gynecological patient, a pregnant woman;
- The main symptoms of the most common gynecological diseases: etiology, pathogenesis and prophylaxis;
- The course of physiological and pathological pregnancy, childbirth;
- The modern methods of clinical, laboratory, instrumental examination of patients and their diagnostic capabilities.
- The emergency conditions in obstetrics and gynecology, the main clinical symptoms and syndromes, the criteria for the diagnosis of various diseases, the basic principles of medical care for emergency conditions.

Be able

- to examine the patient; to evaluate the data, formulate syndromic diagnosis and to plan additional research methods,

Master

- the skills of the physical examination of pregnant women and fetuses, measurements of the pelvis dimensions.
- the skills of assessment the pregnancy activity and severity of gestosis.
- the skills of basic principles of diagnosis and treatment of gynecological diseases.

5. LITERATURE

1. Methodical aids of chair.
2. Dewhurst's Textbook of Obstetrics and Gynaecology 8th Edition; 2012, 830p.
3. D.C Dutta, "Text Book of Obstetrics", Sixth Edition-2004

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	UROLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	V	SEMESTER	IX
ACADEMIC YEAR	2018-2019		

MADE BY	DMedSc Arsen Minasyan Gagik Mkrtchyan		
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CHAIR	Surgical Subjects		
CLINICAL BASE	ArtMed MRC		
HEAD OF THE CHAIR	Gagik Mkrtchyan		

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	IX	2	17	2	60	34	12	22	17	9		+
Total		2	17	2	60	34	12	22	17	9		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, surgical diseases, orthopedics and traumatology, radiology.

2. SHORT SUMMARY OF THE SUBJECT

" Urology" is a educational discipline which studies the surgical and medical diseases of the male and female urinary-tract system and the male reproductive organs. It studies clinical symptoms of urological diseases, methods of diagnosis, their types and characteristics; infections of kidneys, urinary tract and genital tract, non-specific inflammatory diseases of urogenital organs, kidney and urinary tract injuries, cancers of the kidneys, urinary tract and genital organs; prostate diseases: acute and chronic prostatitis, adenoma of the prostate; urolithiasis, hydronephrosis, hydrouretronephrose.

3. AIM OF THE SUBJECT

Aim of subject "Urogolia" is to teach the ways for the treatment of kidneys, urinary tract and male genital diseases..

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

- the main urological diseases: their etiology pathogenesis, clinic, diagnostic features and the most effective treatments.

Be able

- to organize urological patient's adequate diagnosis and treatment.

Master

- the skills of the differential diagnosis of urological diseases.

5. LITERATURE

1. Methodical aids of chair.
2. Glenn's Urologic Surgery Seventh Edition; Philadelphia, USA; 938p.; 2010.
3. Oxford Textbook of Urological Surgery; Edited by Freddie C. Hamdy and Ian Eardley; Oxford University Press; 2017.
4. Campbell-Walsh Urology: 4-Volume, 9th Edition, 2016.

6. COMPONENTS	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	ONCOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General Medicine		
YEAR	V	SEMESTER	X
ACADEMIC YEAR	2018-2019		

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CHAIR	Surgical Subjects
CLINICAL BASE	Artmed MRC
HEAD OF THE CHAIR	Gagik Mkrtchyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	X	3	17	4	90	68	24	44	18	4		+
Total		3	17	4	90	68	24	44	18	4		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, surgical diseases, histology, clinical pharmacology, internal diseases, orthopedics and traumatology, biochemistry.

2. SHORT SUMMARY OF THE SUBJECT

" Oncology " is a educational discipline which studies the causes of tumors occurrence, mechanisms of development, clinical course, treatment and prevention methods. The course examines the following issues: medical ethics and deontology, organization of oncological service, risk factors and prevention methods for the malignant and benign neoplasms, general principles of diagnosis and treatment of neoplasms (surgical, radiological and medicinal), the role of prophylactic research in the early detection of cancer. The peculiarities of diagnosis and treatment of neoplasms in childhood.

3. AIM OF THE SUBJECT

Aim of subject " Oncology " is to teach students:

- the basic principles of theoretical oncology;
- the features of the organization of oncological assistance to the population;
- the main nosological forms of malignant and benign tumors, the possibilities of their prevention and early diagnosis, familiarization with modern principles of treatment of cancer patients

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- The factors which contribute the occurrence of malignant tumors and cancer prevention measures;
- The symptoms of the most frequent malignant neoplasms, pathogenesis of their development;
- The modern methods of diagnosis of malignant tumors, the role and methods of instrumental and morphological studies;
- The modern principles and results of radical and palliative treatment of malignant tumors;
- The deontological aspects in oncology.

Be able

- to collect anamnesis, to analyze the nature of complaints,
- to conduct a physical examination of a cancer patient,
- to formulate and justify a clinical diagnosis,
- to identify a group of people at higher risk for the occurrence of a malignant tumors.

Master

- the skills of the dispensary control of tumor patients,
- the skills of the appointment of clinical examination of patients with cancer;

5. LITERATURE

1. Methodical aids of chair.
2. Oxford Textbook of Oncology 3rd Edition; David J. Kerr (Editor);2016, Oxford university press; 975p.
3. American Cancer Society Textbook of Clinical Oncology; 2017, 776p.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	SURGICAL DISEASES, PEDIATRIC SURGERY.		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	IV-VI	SEMESTER	VII - XII
ACADEMIC YEAR	2018-2019		
MADE BY	DMedSc Arsen Minasyan Gagik Mkrtchyan		
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CHAIR	Surgical Subjects
CLINICAL BASE	ArtMed MRC
HEAD OF THE CHAIR	Gagik Mkrtchyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
IV	VII	4	17	4	120	68	30	38	34	18		+
	VIII	3	17	4	90	68	20	48	16	6	+	
V	IX	2	17	2	60	34	16	18	17	9	+	
	X	2	17	2	60	34	14	20	17	9	+	
VI	XI	2	17	2	60	34	14	20	17	9		+
	XII	3	17	4	90	68	20	48	14	8	+	
Total		16	102	18	480	306	114	192	115	59		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, orthopedics and traumatology, radiology.

2. SHORT SUMMARY OF THE SUBJECT

"Surgical diseases, pediatric surgery." is a educational discipline which studies surgical diseases, principles and methods of their diagnosis and treatment and the most important surgical peculiarities of childhood age.

During the 7, 8, 9, 10, 11 and 12th semesters students study the basics of thoracic and abdominal surgery; vascular surgery, cardiac surgery and pediatric surgery.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of subject: aim of teaching and learning of the academic discipline "Surgical diseases, pediatric surgery" is to study the surgical diseases of the thorax, abdomen, heart, vessels, the principles and methods of their differential diagnosis and treatment and the most important surgical peculiarities of childhood age.

3.2. Course Objectives:

- Detect the main surgical syndromes and diagnose the main surgical diseases in thoracic, abdominal, vascular and cardiac surgery.
- Introduce ways of surgical treatment for the thorax, abdomen, heart and vessels diseases.
- Identify surgical peculiarities of surgical diseases of childhood.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the main surgical diseases of thorax, abdomen, heart and vessels: their etiology pathogenesis, clinic, diagnostic features and the most effective treatments, as well as a diagnosis and treatment of surgical diseases of the above mentioned anatomical regions and organs in childhood.

Be able

- to organize for thoracic, abdominal, vascular and cardiac surgical patient's adequate surgical diagnosis and treatment; as well as the same activities for pediatric patients.

Master

- the skills of the differential diagnosis of surgical diseases of thorax, abdomen, heart and vessels as well as for patients with the same problems in childhood age.

5. LITERATURE

1. Methodical aids of chair.
2. Atlas of general surgical techniques / [edited by] Courtney M. Townsend Jr., B. Mark Evers. -- 1st ed.
3. Essential surgery [edited by] Clive R. G. Quick, -- 5 ed.; 2016
4. Oxford Handbook of Clinical Surgery; [edited by] McLatchie, Greg; Borley, Neil; Chikwe, Joanna; 2017.

6. COMPONENTS

POINTS

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	TRAUMATOLOGY AND ORTHOPEDICS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	III, IV	SEMESTER	VI, VII
ACADEMIC YEAR	2018-2019		

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CHAIR	Surgical Subjects
CLINICAL BASE	Scientific Center of Traumatology and Orthopedics
HEAD OF THE CHAIR	Gagik Mkrtchyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
III	VI	4	17	4	120	68	24	44	34	18		+
IV	VII	3	17	3	90	51	20	31	25	14	+	
Total		7	34	7	210	119	44	75	59	32		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, histology, clinical pharmacology, propaedeutic of internal diseases, radiology, emergency medicine.

2. SHORT SUMMARY OF THE SUBJECT

" Traumatology and Orthopedics " is a educational discipline which has two compartments. The "Traumatology" compartment study prevention, diagnosis and treatment of bone fractures, dislocation, soft tissue injuries, wounds and wound infections, gunshot injuries, polytraumas.

The "Orthopedics" compartment study the prevention, diagnosis, and treatment of musculoskeletal deformations and functional disorders that are resulting from the congenital and developmental defects, injuries or diseases.

3. AIM OF THE SUBJECT

3.1. Aim of subject " Traumatology and Orthopedics " is:

- to train future doctors of the general profile who can provide the necessary amount of assistance to the traumatological patients during an emergency;
- to train future doctors of the general profile to find the patients with the orthopedic pathologies and to direct them to the appropriate treatment.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know

- the types of traumatological and orthopedic diseases, their etiology, pathogenesis; diagnostically investigations methods in traumatology and orthopedics; modern treatment and rehabilitation methods for patients; the terms of restoration of working capacity in case of typical injuries and orthopedic diseases.

Be able

- to realize rehabilitation events for the patients with traumatological and orthopedic diseases after their treatment.

Master

- the skills of the methods of first medical care, particularly during shock and terminal situations

- the skills of diagnosis of the typical traumatological and orthopedic diseases.

5. LITERATURE

1. Methodical aids of chair.
2. Oxford Textbook of Trauma and Orthopaedics; Edited by Christopher Bulstrode, Oxford University Press; Print ISBN-13: 9780199550647; 2011

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	GENERAL SURGERY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	III	SEMESTER	V, VI
ACADEMIC YEAR	2018-2019		

MADE BY	DMedSc Arsen Minasyan Gagik Mkrtchyan
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CHAIR	Surgical Subjects
CLINICAL BASE	ArtMed MRC
HEAD OF THE CHAIR	Gagik Mkrtchyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
III	V	2	17	2	60	34	18	16	17	9		+
	VI	4	17	4	120	68	22	46	34	18	+	
Total		6	34	6	180	102	40	62	51	27		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy.

2. SHORT SUMMARY OF THE SUBJECT

"General surgery" is a educational discipline which studies the general principles of diagnosis, treatment and anesthesia in surgery, classification and names of operations. It allows to get acquainted with the main types of surgical diseases; know the basic methods of anesthesia.

During the 5th semester students study asepsis and antisepsis, anesthesia, bleeding, blood transfusions, surgical operation, pre-and post-operative periods, soft tissue injuries, traumatic toxicosis, bone fractures and joints injury; during the 6th semester students study burns and frostbite; wounds / desmurgia /; common issues of acute purulent infection; necrosis, gangrene, fistulas, ulcers; parasitic diseases; tumors; reconstructive plastic and transplant surgery; laparoscopic surgery; vascular surgery.

3. AIM OF THE SUBJECT

The aim of teaching and learning of the academic discipline "General surgery" is to study the general principles of diagnosis, treatment, anesthesia in surgery and the main types of surgical diseases; to introduce students the basics of clinical research of surgical patients and applying this knowledge to substantiation and performing medical procedures and surgical interventions.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

the characteristics of the surgical hospital, its requirements; the classification of operations; general principles of the asepsis and antisepsis, techniques of general and local anesthesia; classification of wounds, methods of treatment; types of bandages; peculiarities of soft tissue and bones surgical diseases, classification of bleeding and main arresting methods; types of tumors and main diagnostic methods for their identification; main principles of vascular surgery; parasitic diseases requiring surgical intervention.

Be able

- to apply the rules of asepsis and antisepsis;
- to arrest bleedings by temporary and permanent methods;
- to determine the blood group affinity with standard serum and standard erythrocytes;
- to make blood conservation and preservation;

Master

- the skills of the immobilization of limbs;
- the skills of some methods of local anesthesia;
- the skills of bleeding arrest
- the skills of types of bandages ;

5. LITERATURE

1. Atlas of general surgical techniques / [edited by] Courtney M. Townsend Jr., B. Mark Evers. -- 1s ed.
2. Essentials of general surgery; Peter F. Lawrence; fifth edition, London 2007.
3. A. Butirsky; General surgery; 2-d edition; SIMFEROPOL; 2004

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	MANUAL THERAPY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	VI	SEMESTER	XI
ACADEMIC YEAR	2018-2019		

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CHAIR	Traditional medicine named after E. Minasyan
CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	PhD Eleanor Minasyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
VI	XII	3	17	3	90	51	20	31	26	13		+
Total		3	17	3	90	51	20	31	26	13		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, normal physiology, internal diseases, therapy, neurology, traumatology and orthopedics, acupuncture, physiotherapy, reflexotherapy.

2. SHORT SUMMARY OF THE SUBJECT

"Manual therapy" is a educational discipline which includes the knowledge about use of natural healing factors (radiation energy of the sun, air currents, temperature, water pressure) and physical agents that are obtained using special devices (various types of electrical current, heat, electromagnetic and mechanical vibrations).

3. AIM AND OBJECTIVES OF THE SUBJECT

Aim of subject: aim of teaching and learning of the academic discipline "Manual therapy" is to train doctors who will have the theoretical knowledge and practical skills from types and methods of physiotherapy.

Objectives of the subject:

- To represent the manual therapy as a therapeutic method, substantiating each of its effects on the organism and explaining the mechanisms of action.
- To identify the therapeutic effects by comparing of them with the phases of pathological processes.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

- the effects of manual therapy on the organism;
- the mechanisms of manual therapy influence on the organism.
- the indications and contraindications of manual therapy during various diseases.
- the deviations and disorders of the physical development and ways of their correction by manual therapy.

Be able

- to determine the mobility and deformations of spine and different joints
- to check the active and passive movements of the spine segments, chest, shoulders, pelvis and limbs,
- to introduce the acquired knowledge in the field of practical medicine,
- to combine manual therapy methods with other therapeutic methods,

Master

- the skills of manual therapy (diagnostic and therapeutic), massage, breathing techniques.

5. LITERATURE

1. P. Pfund, Differentiation, Examination and Treatment of Movement Disorders in Manual Therapy; 589p.; 2005.
2. Dimitrios Kostopoulos; The Manual of Trigger Point and Myofascial Therapy; New York, 236p., 2001.

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

COURSE'S NAME	ACUPUNCTURE		
COURSE's TYPE	Compulsory		
EDUCATIONAL LEVEL	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY	General medicine		
DEPARTMENT	General medicine		
YEAR	IV-VI	SEMESTER	VII-XI
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Eleonora Minasyan PhD Narek Mkrtchyan
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CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	PhD Eleonora Minasyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures hours	Practice hours	Individual work hours	Consultation by lecturer	Examination	Test
IV	VII	4	17	4	120	68	44	24	34	18		+
	VIII	3	17	3	90	51	18	33	25	14	+	
V	IX	3	17	3	90	51	18	33	25	14		+
	X	3	17	4	90	68	24	44	14	8	+	
VI	XI	3	17	3	90	51	22	29	25	14	+	
Total		16	85	17	480	289	126	163	123	68		

1. PRECONDITION; *In order to master the course it is necessary;*

Anatomy, Physiology, Pathophysiology, Operative Surgery, Pharmacotherapy, Phytotherapy, Philosophy.

2. SHORT SUMMARY OF THE SUBJECT

Acupuncture therapy is a philosophical science, which has its outlook and functions (about Yin-Yang, Wu Xing (инь-ян, у-син), meridian system, energy, blood and fluids and vital points). It examines the physiological bases of the human body, pathomexies of the disease development, diagnostic methods (screening, questioning, listening, tactile, instrumental research) and treatment methods; acupuncture therapy, which has world-wide recognition, like zhenjiu therapy (чжэнь-цзю).

3. AIM OF THE SUBJECT

The aim of "Acupuncture therapy" course is to teach future doctors theoretical and practical basics of Oriental traditional medicine, diagnostic and treatment methods, master acupuncture therapy in the complex of diseases treatment, integrating with modern medicine.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:

Know philosophical teachings of oriental traditional medicine; Yin-Yang, Wu Xing, Jing luo, Zhan Fu, Shu-xue, energy, blood and liquids, etiology of pathological conditions and pathogenesis, physiological principles and principles of reflexotherapy, the general characteristics of the meridians, topography, pathology, major points, and their therapeutic instructions, acupuncture therapy in the treatment complex of internal, respiratory, cardiovascular, digestive, urogenital, hepatobiliary, locomotor system diseases and in and reanimatology.

Be able to apply methods and methods of treatment accepted in ancient medicine.

Master the 4 diagnostic methods (examination, survey, listening, and touch), instrumental examination, methods of Reodoraku, Akabane, selection of points according to traditional medicine and reflexotherapy, blood loss, auriculotherapy, acupressure (according to Oriental traditional and modern medicine), method of acupuncture therapy, to influence the vital points and zones placed on different parts of the body.

5. Literature

1. Belousov P.V. "Theoretical foundations of Chinese medicine" Almaty 2010.
2. Vasichkin V.I. "Methods of Chinese Acupuncture" Moscow 2001.
3. Davydov M.A. "Space and time in Chinese medicine" Rostov 2008.
4. Luvsan G. "Traditional and modern methods of eastern reflexology" M. 1986.
5. Macheret E. L., Samosyuk I.Z. "Guide to reflexology" Kiev 1982.
6. Machocha J. "Basics of Chinese Medicine" Moscow 2013.
7. Machocha J. "Psyche in Chinese medicine" Moscow 2013.
8. Pesikov Ya.S., Rybalko S.Ya. "Atlas of clinical auriculotherapy" Moscow 1990.
9. Samosyuk I.Z., Lysenyuk V.P. "Acupuncture. Encyclopedia" Kiev, Moscow 1990.
10. Tabeeva D.M. "Guide to acupuncture" Moscow 1980.
11. U Wei-Xin "Encyclopedia of Chinese Medicine. The Healing Forces of Nature" M. 2002.
12. Zhu-Liang, "A Guide to Modern Zhenjiu Therapy," Moscow 1959.

6. ASSESSMENT COMPONENTS

	Point
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PHYTOTHERAPY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	IV-VI	SEMESTER	VIII - XI
ACADEMIC YEAR	2018-2019		

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CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	PhD Eleonora Minasyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures hours	Practice hours	Individual work hours	Consultation by lecturer	Examination	Test
IV	VIII	2	17	2	60	34	18	16	18	8		+
V	IX	3	17	3	90	51	26	25	26	13		+
	X	3	17	3	90	51	26	25	25	14		+
VI	XI	3	17	3	90	51	24	27	26	13	+	
Total		11	68	11	330	187	94	933	95	48		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, pathological anatomy, pathological physiology, histology, biology, physics, chemistry, biochemistry, pharmacology, clinical pharmacology.

2. SHORT SUMMARY OF THE SUBJECT

"Phytotherapy" is a educational discipline which studies the composition of herbs and their application, their effects on various diseases and using of the phytotherapeutic preparations in the complex treatment. Phytotherapy belongs to the traditional medicine course.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of subject: aim of teaching and learning of the academic discipline "Phytotherapy" is to study the theoretical and scientific bases of herbal medicine, which is the basis of traditional medicine, to combine and integrate with modern medicine in the future medical activities.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

- the pharmacological effects of herbs and their preparations on the human body,
- the medical herbs, growing in Armenia and other countries, and their use in the complex of treatment of various diseases, rare medicinal herbs,
- the contraindications of the phytotherapeutic treatment.
- determination of toxic herbs,

Be able

- to select the herbs for the specific diseases,
- to prepare herbal medicines independently.

Master

- the skills of the dosing of the phytotherapeutic preparations,
- the skills of preparation of the phytotherapeutic herbal blends,
- the skills of writing out phytotherapeutic recipes

5. LITERATURE

1. Herbal Medicines /Joanne Barnes/ third edition, London, 704 p., 2007
2. Fundamentals of pharmacognosy and phytotherapy, Michael Heinrich, Joanne Barnes, et al. -- 2 ed.; London, 326p., 2012.
3. N. Ghukasyan, Phytotherapy based on Pharmacognosy Principles, Yerevan, 2018

6. COMPONENTS**POINTS**

Attendance

20

Development of knowledge acquisition, capacity and skills

70

Individual work

10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	PHYSIOTHERAPY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	VI	SEMESTER	XI
ACADEMIC YEAR	2018-2019		

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HEAD OF THE CHAIR	PhD Eleonora Minasyan

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures hours	Practice hours	Individual work hours	Consultation by lecturer	Examination	Test
VI	XI	2	17	2	60	34	16	18	17	9		+
Total		2	17	2	60	34	16	18	17	9		

1. INTRODUCTION. *In order to master the course,*

The knowledge of the medical university curriculum includes the following subjects: human anatomy, physics, normal physiology, pathologic physiology, internal diseases, therapy, neurology.

2. SHORT SUMMARY OF THE SUBJECT

" Physiotherapy" is a educational discipline which includes the knowledge about use of natural healing factors (radiation energy of the sun, air currents, temperature, water pressure) and physical agents that are obtained using special devices (various types of electrical current, heat, electromagnetic and mechanical vibrations).

3. AIM AND OBJECTIVES OF THE SUBJECT

Aim of subject: aim of teaching and learning of the academic discipline “ Physiotherapy” is to train doctors who will have the theoretical knowledge and practical skills from types and methods of physiotherapy.

Objectives of the subject:

- To Introduce Physiotherapy as a reflexotherapy method, by presenting the characteristics of each physical factor and clarifying the mechanisms of its action.
- To identify the therapeutic effects by comparing of them with the phases of pathological processes.
- To select therapeutic doses of the physical factors according to the phases of the pathological process.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:**Know**

- the effects of various physical factors on the organism;
- the mechanisms of physical factors influence on the organism.
- the therapeutic indications and contraindications of physical factors during various diseases.

Be able

- to introduce the acquired knowledge in the field of practical medicine,
- to combine physiotherapeutic methods with other therapeutic methods,
- to apply physiotherapeutic methods in prophylactic medicine

Master

- the skills of work with physiotherapeutic equipment,
- the skills of the safety rules of work with physiotherapeutic equipment,
- the skills of the physiotherapy technique;

5. LITERATURE

1. Tidy's Physiotherapy, 15th. ed., London, 668p., 2017
2. Student handbook of physiotherapy, UNIVERSITY OF DUBLIN, 2014.

6. COMPONENTS

	POINTS
Attendance	20
Development of knowledge acquisition, capacity and skills	70
Individual work	10

7. ASSESSMENT RATING SCALE

Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	HOMEOPATHY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	III, IV	SEMESTER	VI, VII
ACADEMIC YEAR	2018-2019		

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CHAIR	Traditional medicine named after E. Minasyan
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COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
III	VI	3	17	3	90	51	20	31	25	14		+
IV	VII	2	17	2	60	34	20	14	17	9		+
Total		5	34	5	150	85	40	45	42	23		

1. INTRODUCTION. *In order to master the course,*

Biology, Anatomy, Physiology, Pathophysiology, Surgery, Pharmacotherapy, TCM, Herbal medicine, Philosophy

2. SUMMARY OF THE SUBJECT

The homeopathy course examines the role of homeopathy in general medicine, symptoms in homeopathy, homeopathic concept of the disease, the effect of medication, the specification of homeopathic drugs, and the choice of medication in various diseases.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of the homeopathy course is to teach the theoretical and practical basic principles of the subject as an alternative medicine and the method of treatment, to teach the use of homeopathic drugs in various organ systems, improve their practical abilities and skills, and prepare masters for the clinical work.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:		
Undersand the role of homeopathy in medicine, collecting patient history and diagnostic features		
Be able use the homeopathy for educational, scientific, publicly available literature and the Internet for professional activities.		
Master the choices of homeopathic drugs and the methods of preparation.		
5. LITERATURE		
1. Келер Герхард Гомеопатия. Часть I и II Основные положения гомеопатии Москва «Медицина» 2000.		
2. G. Koehler “The Handbook of Homeopathy” Healing Arts Press 1989		
3. Самуил Ганеманн Хронические болезни - Их своеобразная природа и гомеопатическое лечение Смоленск 2000г.		
1. 4. Самуил Ганеманн ОРГАНОН ВРАЧЕБНОГО ИСКУССТВА «Атлас» 1991		
4. Вильям Берике «Материя Медика гомеопатических препаратов»		
5. William Boericke. “Pocet Manual of Homeopathic Materia Medica nad Repertory” 8 th impression 2010 B.Jain Publishers (P) LTD		
6. J.T.Kent “Repertory of the Homoeopathic Materia Medicf”		
6. COMPONENTS		POINTS
Attendance		20
Development of knowledge acquisition, capacity and skills		70
Individual work		10
7. ASSESSMENT RATING SCALE		
Marks	Rating mark	Letter mark
Excellent	96-100	A+
	90-95	A
Good	80-89	B+
	70-79	B
Satisfactory	60-69	C+
	51-59	C
Unsatisfactory	50 and less	D
Tested	≥51	S
Untested	< 51	U

SUBJECT	IRIDODIAGNOSTICS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	General medicine		
YEAR	IV	SEMESTER	VIII
ACADEMIC YEAR	2018-2019		
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CLINICAL BASE	UTM SMTC		
HEAD OF THE CHAIR	PhD Eleonora Minasyan		

COURSE VOLUME

Year	Semester	Credit	Academic week	Hours per week	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
IV	VIII	4	17	4	120	68	34	34	34	18		+
Total		4	17	4	120	68	34	34	34	18		

1. INTRODUCTION. *In order to master the course,*

- Anatomy
- Physiology
- Histology
- Pathophysiology
- Path. Anatomy
- Prevention of Therapeutic Diseases

2. SUMMARY OF THE SUBJECT

Iridiodiagnostics is a traditional medicine curriculum. It includes the following sections:

- - Anatomical structure of the iris. The course studies the normal anatomical structure of the iris, congenital defects, layers arrangement, and formation.

Pathological disorders of iris, different eye diseases, which will affect on the normal anatomical structure of the iris.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. The aim of the course

Prepare doctors who will be able to use modern methods of medical science and practice to show proper medical care, treatment and diagnosis to patients of all ages.

3.2. Objectives of the Course

- To capture the diagnostic methods of various therapeutic diseases (i.e. accurately know the topographical location of the organ on the iris by hour-pointer).
- Instructions for treatment and contraindications after detection of a therapeutic disease.
- Detection, elimination, prevention of complications of treatment.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:		
Undersand the role of homeopathy in medicine, collecting patient history and diagnostic features		
Be able use the homeopathy for educational, scientific, publicly available literature and the Internet for professional activities.		
Master the choices of homeopathic drugs and the methods of preparation.		
5. LITERATURE		
1. E. C. Вельховер и др., “Иридодиагностика”, М., 1988г.		
2. E. C. Вельховер и др., “Основы иридодиагностики”, Баку, 1982г.		
3. Jausas G. L, ” Iridologie renovee” Paris, 1983		
4. Jensen B., “The science and practice of iridology. Escondido, 1985		
5. Bourdiol R., “Traite d` irido-diagnostic Maisonneuve” ,1975		
6. Deck L., “Grundlagen der iris-diagnwstic. Etlingeo”, 1965.		
6. COMPONENTS		POINTS
Attendance		20
Development of knowledge acquisition, capacity and skills		70
Individual work		10
7. ASSESSMENT RATING SCALE		
Marks	Rating mark	Letter mark
Excellent	96-100	96-100
	90-95	90-95
Good	80-89	80-89
	70-79	70-79
Satisfactory	60-69	60-69
	51-59	51-59
Unsatisfactory	50 and less	50 and less
Tested	≥51	≥51
Untested	< 51	< 51