

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

<i>SPECIALIZATION</i>	<i>091101.00.7 - "DENTISTRY"</i>
<i>QUALIFICATION</i>	<i>DOCTOR - DENTIST</i>

Yerevan 2018

The Specification of Professional Education Program /PEP/ is intended 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 the student and who can achieve it, if he /she fully takes the advantage from the educational opportunities offered to him/her.

PROFESSIONAL EDUCATIONAL PROGRAM OF
091101.00.7- "DENTISTRY" SPECIALIZATION

General provisions

- The name and number of profession of the educational program; *091101.00.7- "Dentistry"*
- National Qualifications Framework; *Level 6, Level 7 of the National Qualifications Framework*
- The period of mastering of PEP; *5 years*
- Number of credits; *300 /three hundred/*
- Awarded Qualifications; *Doctor - dentist*
- Higher education institution; *The University of Traditional Medicine /UTM/*
- The Faculty of Educational program implementer; *Dentistry*
- The form of learning program; *Current education*
- Educational activities are implemented in; *State Language of RA*
For foreigners in English
- The educational program is licensed and accredited; *License- N 0002*
Accreditation - N 127

1.1. Introduction:

The Professional Education Program /PEP/ of 091101.00.7- "Dentistry" curriculum implemented by UTM is a system of documents, which has been developed and approved by the Academic Council of the University on 15th of May 2018 /protocol N11/, according to the labor market requirements and educational standards of the RA in accordance with 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.

PEP regulates the objectives of the educational process, expected results, content and 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 PEP of 091101.00.7- "Dentistry" 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 Republic of Armenia,

1.3. General description of the Professional Education Program.

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

The purpose of PEP is;

- prepare doctor-dentist who are aware of their role in a 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,
 - ✓ demonstrating clinical flexibility, will be able to apply theoretical and practical knowledge during practical activities that have gained during the study,
- 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 doctor-dentist who will be required and competitive in the 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 PEP

The official duration of PEP is 5 years, 250 weeks, including theoretical teaching, practical and laboratory classes, examinations, study and 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 successful attestation exams, the graduate is awarded a doctor-dentist's qualification.

The PEP of UTM's 091101.00.7- "Dentistry" consists of the following modules and educational units:

a/ Theoretical training module

- I. Humanities, social-natural sciences curriculum-27 credits,
- II. Natural, mathematical and medical-biological trainings-95 credits,
- III. Preventive medicine training course-13 credits,

Clinical and professional training modules

IV. Clinical and professional courses

- Curriculum for Therapeutic and Surgical Diseases-50 credits,

Professional training module

- Therapeutic dentistry courses-33 credits,
- Surgical dentistry courses-23 credits,
- Orthopedic dentistry courses-21 credits,
- Pediatric dentistry courses-18 credits,

V. Traditional medicine courses-7 credits,

Educational-production practice-10 credits,

Additional elective courses

A 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 by the end of the educational program.

1.3.3. The requirements for 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" 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 mastered the PEP of 091101.00.7- "Dentistry"

2.1. The scope of professional activity of a graduate who mastered the PEP includes:

health protection of the population by providing dental services in accordance with the healthcare industry standards and requirements.

2.2 The objects of professional activity of a graduate who mastered the PEP are

- persons /hereinafter referred to as patients/,
- population,
- a set of necessary tools and technologies for the provision of dental care and creating conditions for the health of citizens.

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

- medical,
- organizational-management,
- research,

2.4. The problems of the graduate professional activity

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

▪ **Medical activity**

- prevention of diseases among the population through preventive and anti-epidemic measures,
- participation in preventive medical examinations, dispensing and dispatch control activities,
- gathering information and analysis on dental diseases of different age groups, as well as their impact on human health,
- diagnosis of dental diseases and pathological status of patients,
- diagnosis of acute status of patients,
- organization of temporary disability examination and participation in other medical examinations,
- providing dental care under ambulatory and daytime conditions,
- participation in emergency situations in the first aid case, including participation in medical eviction,
- participation in medical rehabilitation and sanatorium treatment of patients with dental diseases,
- the motivation formation of population, patients and their families aimed at maintaining and strengthening the health of the person and the environment,
- training of patients, basic hygienic measures of therapeutic nature, which will contribute to the prevention of dental disease and health promotion,

▪ **organizational-management activities**

- application of basic principles of dental care organization in medical institutions and their structural subdivisions,
- providing favorable conditions for patients and health personnel in dental medical institutions,
- maintenance of medical records in medical institutions,
- organization of medical examination,
- participation in the assessment of the quality of dental care provided to patients,
- main requirements for information security protection,

▪ **research activities**

- analysis of medical literature and official statistics participation in statistical analyzes and publicizing the obtained results,
- participation in the solution of scientific research problems in the field of health which relates to diagnosis, treatment, medical rehabilitation and prevention.

3. The professional activity description of 091101.00.7- "Dentistry" PEP as a result of mastering

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

As a result of mastering the PEP general, general professional and professional endpoints should be formed for the graduate.

The graduate, who mastered the PEP of Dentistry should master the following general end results

GE	General endpoints
GE -1	Have 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, creativity, carry out discussions and debates, editing 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, tolerate social, ethnic, religious and cultural differences.

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

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 while engaging in professional activities oral and written.
GPE -3	Ability to apply in professional activities, moral and psychological, deontological principles, and the basics of legal knowledge.
GPE -4	Be able and be ready to analyze the results of their activities to prevent professional errors.
GPE -5	Ability to carry out medical documentation.
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 use medicines and other substances as well as their combinations 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 taking into consideration the peculiarities of age.
GPE -9	Ability to provide primary preventive care /medical-sanitary/ and organize patients' care.
GPE -10	Ability to use medical instruments and equipment for medical and dental care.

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

Preventive activity

PE	Professional Endpoints
PE -1	Be able and be willing to implement complex health and conservation measures including the formation of a healthy lifestyle, prevention of the spread and spread of diseases, early diagnosis, detection of their origin and development conditions and causes, genotypic and phenotypic manifestations of hereditary diseases, genetic bases of congenital malformations of maxillofacial device, as well as the elimination of harmful environmental impacts on human health.
PE -2	Be able and be willing to carry out preventive medical examinations, dispensing and administer dispensary control of patients with dental pathology.
PE -3	Be able and be willing to conduct anti-epidemic measures, to organize population protection especially in dangerous infections, worsening of radiation situation in case of natural disasters and other emergencies.
PE -4	Ability to conduct an informative medical-statistical analysis of dental diseases from the social and hygienic perspective.

Diagnostic activity

PE-5	Ability to listen and to analyze patient complaints, anamnesis data, inspection, examination, instrumental, pathology and other research results, for the detection or denial of dental diseases.
PE-6	Ability to diagnose nosologies of dental diseases and problems, main pathological conditions in accordance with international statistical classification, symptoms and syndromes of diseases.
PE-7	Ability to conduct a temporary disability examination, take part in medical and social expertise and record the fact of human biological death.

Medical activity

PE -8	Ability to determine the tactics of patients with nosologies of different dental diseases.
PE -9	Ability to conduct treatment of dental diseases of different age groups in ambulatory conditions and at home.
PE -10	Ability to provide medical care in emergencies, as well as participate in medical evacuation.

Rehabilitation activities

PE -11	Ability to determine natural healing impulses, drugs, non-drug therapy and other methods of treatment with dental patients who need medical rehabilitation and resort treatment.
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Psychological and pedagogical activity

PE -12	Ability to teach the basic hygienic activities of the population recovery, self-control skills of basic physiological indicators, which contribute to the preservation and strengthening of health, prevention of dental diseases.
PE -13	Ability to engage in enlightenment activities, with healthy lifestyle skills and eliminate risk signals.

Organizational-governmental activity

PE -14	Ability to utilize the basic principles of organizing and managing the health of the population in medical organizations and their structural subdivisions.
PE -15	Ability to participate in the evaluation of dental care quality based on medical-statistical indicators.

Research activities

PE -16	Ability to analyze and to present medical information to the public, national and international experience on the subject of research according to the evidence-based medicine.
PE -17	Ability to participate in scientific researches.
PE -18	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 the 191101.00.7 - "Dentistry" PEP.

The PEP is a document system, 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
▪ Assistant of Dentist/therapist/	2 credits	2 weeks	III course	6 th semester
▪ Assistant of Dentist /surgeon/	2 credits	3 weeks	IV course	8 th semester
▪ Assistant of Dentist / orthopedist/	2 credits	2 weeks	IV course	8 th semester
▪ Pediatrician Dentist Assistant	2 credits	2 weeks	V course	9 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 state final certification program.

This includes the preparation and submission of state exams.

Final attestation state exams

1. Therapeutic dentistry
2. Surgical Dentistry
3. Orthopedic Dentistry
4. Pediatric dentistry
5. Orthodontics

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 self-study, use 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 PEP

The evaluation methodology used within the scope of the "Dentistry" 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" category.

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 control is distinguished according to the capacities' detection method;

- During a talk 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, oral speech and other skills. Written answers allow the lecturer to save time, check the assessment justification and 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 state final 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,
 - the 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 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, has basic education that corresponds to the profile of the taught subject, 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.

Professors of the professional program have a basic education and / or a degree corresponding to the subject of the taught subject.

At least 52 percent of professors of professional program have basic education and / or scientific degree corresponding to the subject of the subject being taught and have basic education and academic degrees or academic.

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 PEP has a material and technical base, which provides implementation of all types, subject and interdisciplinary training, laboratory, practical and research activities of 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 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 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 are included in humanitarian subjects' working curricula.

Special courses of professional ethics are also available. There is an expressed cultural component in the educational programs of these subjects, as well as in psychology, culturology, Armenian language and speech culture. The achievements of domestic scientists are widely mentioned during the study of subjects of natural and clinical cycles.

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-stomatologist who has mastered 091101.00.7 "Dentistry" 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



Appendix

**The PEP /continuous and integrated/ of 091101.00.7 "Dentistry" specialty
by years, semesters and courses /subject modules/**

I Year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
Armenian language	1	2	Armenian language	2	2
History of Armenia	1	3			
Physical training	1	-	Physical training	2	-
Latin	1	2	Latin	2	2
			History of Medicine	2	3
General psychology	1	3			
			Medical Psychology	2	2
Foreign Language	1	3	Foreign Language	2	2
			Medical physics	2	3
Mathematics, Medical Informatics, Statistics	1	3	Mathematics, Medical Informatics, Statistics	2	2
General Chemistry	1	3	Biochemical Chemistry	2	3
Biology	1	5	Biology	2	3
Human anatomy	1	4	Human anatomy	2	4
			Histology, embryology, histology	2	4
Morphology and physiology of herbs	1	2			

II Year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
			Philosophy	4	3
Physical training	3	-	Physical training	4	-
Biochemistry	3	4	Biochemistry, o/c biochemistry	4	$\frac{2}{2}$
Human anatomy, h/n anatomy	3	$\frac{2}{2}$			
Normal physiology	3	4	Topographic anatomy	4	2
Microbiology	3	4	Normal physiology, f/j physiology	4	$\frac{2}{2}$
Histology, embryology, o/c histology	3	$\frac{3}{2}$	Microbiology, o/c microbiology	4	$\frac{2}{2}$
Pharmacognosy	3	2	Pathological anatomy	4	3
Prevention of Dental Diseases	3	3			
			Prevention of dental diseases	4	2
First aid	3	2	Propedeutics of internal diseases	4	2
The propedeutics of therapeutic dentistry	3	3	The propedeutics of therapeutic dentistry	4	2
Educational-Production Practice				4	2
III Year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
Pathological anatomy, dental system and h/n pathological anatomy	5	$\frac{2}{2}$	Immunology, clinic immunology	6	2
Pathologic physiology	5	3			
Pharmacology	5	3	Pathologic physiology, h/n pathological physiology	6	$\frac{2}{2}$
	5	3	Pharmacology	6	3
Propedeutics of internal diseases	5	3	Hygiene	6	3
General Surgery	5	3	Internal diseases	6	3
Radial Diagnosis	5	3	Surgical Diseases	6	3
Cariesology and Dental Fracture Tissue Diseases and Prevention	5	2	Nose, throat, ear disease	6	3
Propedeutics of orthopedic dentistry	5	2	Cariesology and Dental Fracture Tissue Diseases and Prevention	6	3
Local anesthesia and anesthesiology in dentistry	5	2			
Material Science	5	3	Oral cavity surgery	6	2
Teeth Simple Combination	5	2			
			Teeth Simple Combination	6	2
Educational-Production Practice				6	2

IV Year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
Epidemiology	7	3			
Public Health, Healthcare	7	3			
Clinical pharmacology	7	3			
Neurology	7	3			
			Dermato-venereal diseases	8	3
			Infectious diseases	8	3
Gynecology	7	2	Obstetrics	8	2
			Pediatrics	8	2
			Emergency Medicine	8	2
Cariesology and Dental Fracture Tissue Diseases and Prevention	7	3			
Endodontics	7	2	Endodontics	8	2
			Phytotherapy in dentistry	8	2
Oral cavity surgery	7	4	Oral cavity surgery	8	2
Teeth Simple Combination	7	3			
Combination of the jaw in full inactivity	7	4			
			Teeth Complex Combination	8	2
			Pediatric Therapeutic Dentistry	8	2
			Pediatric surgical dentistry	8	2
			Orthodontics and Pediatric Combination	8	2
Educational-Production Practice				8	4
V Year					
Autumn			Spring		
Subject	semester	credit	Subject	semester	credit
			Reanimation, Anesthesiology	10	2
Eye Diseases	9	2			
Psychiatry	9	2			
Forensic Medicine	9	2			
Endodontics	9	2	Endodontics	10	3
Parodontology	9	3	Parodontology	10	2
Diseases of mucous membrane of Oral Cavity	9	2	Diseases of mucous membrane of Oral Cavity	10	2
			Acupuncture in dentistry	10	3
			Physiotherapy in dentistry	10	2
Surgery of oral cavity	9	2			
Implantology and reconstructive surgery of oral cavity	9	2	Implantology and reconstructive surgery of oral cavity	10	2
Maxillofacial Surgery	9	3	Maxillofacial Surgery	10	2
Complex dentistry of teeth	9	2	Complex dentistry of teeth	10	3
Pediatric Therapeutic Dentistry	9	2	Pediatric Therapeutic Dentistry	10	2
Pediatric surgical dentistry	9	2	Pediatric surgical dentistry	10	2
Orthodontics and Pediatric Combination	9	2			
			Genetically-conditioned diseases	10	2
Educational-Production Practice	9	2			
			Final attestation	10	3

I approve

The President of Scientific Council,

Rector

N. Kh. Saribekyan

«15» May 2018



Appendix

**The curriculum of PEP /continuous and integrated/ of 091101.00.7 "Dentistry" speciality
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.	Armenian Language	2	60	34		34	26	9	17	te.
2.	History of Armenia	3	90	51	34	17	39	13	26	te.
3.	Physical training		-68	-34		-34			-34	
4.	Latin	2	60	34		34	26	9	17	te.
5.	General psychology	3	90	51	34	17	39	13	26	te.
6.	Foreign language	3	90	51		51	39	14	25	te.
7.	Mathematics, Medical Informatics	3	90	51	18	33	39	14	25	te.
8.	General Chemistry	3	90	51	24	27	39	13	26	ex.
9.	Biology	5	150	85	26	59	65	23	42	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>172</i>	<i>338</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>7/3</i>

Spring Semester /2 nd 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.	Armenian language	2	60	34		34	26	9	17	te.
2.	Physical training		-68	-34		-34			-34	
3.	Latin	2	60	34		34	26	9	17	te.
4.	History of Medicine	3	90	51	34	17	39	13	26	te.
5.	Medical Psychology	2	60	34	16	18	26	9	17	te.
6.	Foreign Language	2	60	34		34	26	9	17	te.
7.	Medical Physics	3	90	51	24	27	39	14	25	te.
8.	Mathematics and Medical Informatics	2	60	34	16	18	26	9	17	te.
9.	Bioorganic Chemistry	3	90	51	26	25	39	13	26	ex.
10.	Biology	3	90	51	14	37	39	14	25	ex.
11.	Human Anatomy	4	120	68	20	48	52	18	34	ex.
12.	Histology, Embryology, Cytology	4	120	68	18	50	52	18	34	te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>168</i>	<i>342</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>8/3</i>
II Year										
Autumn semester/3 rd semester/ 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.	Physical Training		-68	-34		-34			-34	
2.	Biochemistry	4	120	68	26	42	52	18	34	te.
3.	Human Anatomy	2	60	34	14	20	26	9	17	ex.
	-anatomy of Head & Neck	2	60	34	10	24	26	9	17	
4.	Normal Physiology	4	120	68	24	44	52	18	34	ex.
5.	Microbiology	4	120	68	20	48	52	18	34	te.
6.	Histology, Embryology	3	90	51	8	43	39	14	25	ex.
	Histology of Oral Cavity	2	60	34	8	26	26	9	17	
7.	Pharmacognosy	2	60	34	18	16	26	9	17	te.
8.	Prevention of Dental Diseases	2	60	34	16	18	26	9	17	te.
9.	First Aid	2	60	34	14	20	26	9	17	te.
10.	Propedeutics of Therapeutic Dentistry	3	90	51	16	35	39	13	26	te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>174</i>	<i>336</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>6/3</i>

Spring Semester /4 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.	Philosophy	3	90	51	34	17	39	14	25	te.
2.	Physical Training		-68	-34		-34			-34	
3.	Biochemistry	2	60	34	14	20	26	9	17	ex.
	-biochemistry of Oral Cavity	2	60	34	8	26	26	9	17	
4.	Topographical anatomy	2	60	51	20	31	9	2	7	te.
5.	Normal Physiology	2	60	34	14	20	26	9	17	ex.
	-physiology of Jaw-Facial region	2	60	34	8	26	26	9	17	
6.	Microbiology	2	60	34	12	22	26	9	17	ex.
	- microbiology of oral cavity	2	60	34	8	26	26	9	17	
7.	Pathological Anatomy	3	90	51	20	31	39	14	25	te.
8.	Prevention of Dental Diseases	2	60	34	14	20	26	9	17	te.
9.	Propaedeutics of Internal Diseases	2	60	51	16	35	9	2	7	te.
10.	Propedeutics of Therapeutic Dentistry	2	60	34	12	22	26	9	17	te.
11.	Propedeutics of Orthopedic Dentistry	2	60	34	14	20	26	9	17	te.
12.	Education Practical Trainings	2	60				60			te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>198</i>	<i>312</i>	<i>390</i>	<i>113</i>	<i>217</i>	<i>8/3</i>
III Year										
Autumn Semester /5 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.	Pathological Anatomy	2	60	34	14	20	26	9	17	ex.
	- dental system and pathological anatomy of head & neck	2	60	34	8	26	26	9	17	
2.	Pathological Physiology	3	90	51	22	29	39	14	25	te.
3.	Pharmacology	3	90	51	16	35	39	13	26	te.
4.	Propaedeutics of Internal Diseases	3	90	51	16	35	39	14	25	ex.
5.	General Surgery	3	90	51	20	31	39	13	26	ex.
6.	Radio-diagnostics	3	90	51	24	27	39	14	25	te.
7.	Cariesology and Dental Fracture Tissue Prevention	2	60	34	8	26	26	9	17	te.
8.	Propedeutics of Surgical Dentistry	2	60	34	14	20	26	9	17	te.
9.	Local Anaesthesia and Dental Anesthesia	2	60	34	12	22	26	9	17	te.
10.	Material Science	3	90	51	18	33	39	13	26	te.
11.	Teeth Simple Prosthetics	2	60	34	10	24	26	9	17	te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>182</i>	<i>328</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>8/3</i>

Spring Semester /6 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.	Immunology, Clinical Immunology	2	60	34	18	16	26	9	17	te.
2.	Pathological Physiology	2	60	34	12	22	26	9	17	ex.
	- Pathological Physiology of Jaw-Facial Region	2	60	34	8	26	26	9	17	
3.	Pharmacology	3	90	51	16	35	39	14	25	ex.
4.	Hygiene	3	90	68	24	44	22	4	18	te.
5.	Internal Diseases	3	90	51	18	33	39	13	26	te.
6.	Surgical Diseases	3	90	51	20	31	39	14	25	ex.
7.	Ear, throat, nose Diseases	3	90	51	20	31	39	13	26	te.
8.	Cariesology and Dental Fracture Tissue Prevention	3	90	51	12	39	39	14	25	te.
9.	Oral Cavity Surgery	2	60	51	18	33	9	2	7	te.
10.	Teeth Simple Prosthetics	2	60	34	10	24	26	9	17	ex.
11.	Education Practical Trainings	2	60				60			te.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>176</i>	<i>334</i>	<i>390</i>	<i>110</i>	<i>220</i>	<i>7/4</i>
IV Course										
Autumn semester /7 th semester/ 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.	Epidemiology	3	90	51	20	31	39	14	25	te.
2.	Public Health, Healthcare	3	90	51	20	31	39	13	26	te.
3.	Clinical pharmacology	3	90	51	18	33	39	14	25	ex.
4.	Neurology	3	90	51	24	27	39	13	26	ex.
5.	Obstetrics	2	60	34	12	22	26	9	17	te.
6.	Cariesology and Dental Fracture Tissue Diseases and Prevention	3	90	51	10	41	39	14	25	ex.
7.	Endodontics	2	60	34	8	26	26	9	17	te.
8.	Oral Cavity surgery	4	120	68	18	50	52	18	34	te.
9.	Teeth Simple Prosthetics	3	90	51	8	43	39	13	26	te.
10.	Prosthetics at Complete Edentulism	4	120	68	10	58	52	18	34	ex.
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>148</i>	<i>362</i>	<i>390</i>	<i>135</i>	<i>255</i>	<i>6/4</i>

Spring semester /8 th semester/ 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.	Dermato-venereal diseases	3	90	51	24	27	39	14	25	te.
2.	Infectious Diseases	3	90	51	24	27	39	13	26	te.
3.	Obstetrics	2	60	34	12	22	26	9	17	ex.
4.	Pediatrics	2	60	34	20	14	26	9	17	te.
5.	Medicine of Emergency Situations	2	60	34	16	18	26	9	17	te.
6.	Endodontics	2	60	51	12	39	9	2	7	ex.
7.	Phytotherapical Dentistry	2	60	34	18	16	26	9	17	te.
8.	Oral Cavity surgery	2	60	51	16	35	9	2	7	ex.
9.	Teeth Hard Prosthetics	2	60	51	8	43	9	2	7	te.
10.	Children's Therapeutic Dentistry	2	60	34	8	26	26	9	17	te.
11.	Children's Surgical Dentistry	2	60	34	8	26	26	9	17	te.
12.	Orthodontics & Children's Denture	2	60	51	12	39	9	2	7	ex.
13.	Education Practical Trainings	4	120				120			te.
<i>Total</i>		30	900	510	178	332	390	89	181	9/4
V Course										
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.	Ophthalmologic Diseases	2	60	34	16	18	26	9	17	te.
2.	Psychiatry	2	60	34	24	10	26	9	17	te.
3.	Forensic Medicine	2	60	34	16	18	26	9	17	te.
4.	Endodontics	2	60	34	8	26	26	9	17	ex.
5.	Periodontics	3	90	51	10	41	39	14	25	te.
6.	Oral Cavity Mucous Membrane diseases	2	60	34	8	26	26	9	17	ex.
7.	Oral Cavity surgery	2	60	51	12	39	9	3	6	ex.
8.	Dental Implantation and Oral Cavity Restorative Surgery	2	60	34	12	22	26	9	17	te.
9.	Jaw-Facial surgery	3	90	51	12	39	39	13	26	te.
10.	Teeth Hard Prosthetics	2	60	51	8	43	9	4	5	te.
11.	Children's Therapeutic Dentistry	2	60	34	8	26	26	9	17	te.
12.	Children's Surgical Dentistry	2	60	34	8	26	26	9	17	te.
13.	Orthodontics & Children's Denture	2	60	34	6	28	26	9	17	ex.
14.	Education Practical Trainings	2	60				60			te.
<i>Total</i>		30	900	510	148	362	390	135	255	10/4

Spring semester /10 th semester/ 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.	Anesthesia and resuscitation	2	60	34	16	18	26	9	17	te.
2.	Endodontics	3	90	51	12	39	39	14	25	ex.
3.	Periodontics	2	60	51	10	41	9	3	6	ex.
4.	Oral Cavity Mucous Membrane diseases	2	60	34	8	26	26	9	17	ex.
5.	Acupuncture in Dentistry	3	90	68	22	46	22	6	16	te.
6.	Physiotherapy in Dentistry	2	60	34	12	22	26	9	17	te.
7.	Dental Implantation and Oral Cavity Restorative Surgery	2	60	34	12	22	26	19	17	te.
8.	Jaw-Facial surgery	2	60	51	12	39	9	3	6	te.
9.	Teeth Hard Prosthetics	3	90	51	8	43	39	13	26	ex.
10.	Children's Therapeutic Dentistry	2	60	34	6	28	26	9	17	te.
11.	Children's Surgical Dentistry	2	60	34	6	28	26	9	17	te.
12.	Genetic Diseases	2	60	34	8	26	26	9	17	te.
13.	Final Attestation	3	90				90			
<i>Total</i>		<i>30</i>	<i>900</i>	<i>510</i>	<i>132</i>	<i>378</i>	<i>390</i>	<i>102</i>	<i>198</i>	<i>8/4</i>

❖ *The above-mentioned schedule does not include the classes assigned 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 integrated modules of the integrated education program of 091101.00.7 "Dentistry"
specialty by years and semesters
The Formation of General Endpoints**

N		GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8
1.	Armenian Language					x			x
2.	History of Armenia	x		x					x
3.	Physical Training						x		
4.	Philosophy	x	x	x	x	x			x
5.	Latin	x				x			x
6.	History of Medicine	x		x		x			
7.	General Psychology	x			x	x			x
8.	Medical Psychology				x			x	
9.	Foreign Language					x			x
10.	Medical Physics	x				x			
11.	Mathematics and Medical Informatics	x				x			
12.	General Chemistry	x		x		x		x	
13.	Bioorganic Chemistry	x		x		x		x	
14.	Biology	x							
15.	Biochemistry, Biochemistry of Oral Cavity	x				x		x	x
16.	Human Anatomy, Anatomy of Head & Neck								
17.	Normal Physiology, Physiology of Jaw-Facial region	x				x			x
18.	Microbiology, Microbiology of Oral Cavity	x		x	x	x		x	
19.	Immunology, clinical immunology	x			x			x	
20.	Microbiology, Microbiology of Oral Cavity, Histology of Oral Cavity								
21.	Pathological Anatomy, Pathological Anatomy of Dental system and Oral Cavity	x				x			x
22.	Pathological Physiology, Pathological Physiology of of Head & Neck	x				x			

N		GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8
	Morphology and Physiology of Herbs	x				x			
24.	Pharmacognosy	x				x			
25.	Pharmacology	x			x	x		x	x
26.	Epidemiology	x		x	x			x	
27.	Hygiene	x		x		x			
28.	Public Health, Healthcare	x				x			
29.	Propedeutics of internal diseases	x			x				x
30.	Internal diseases	x			x	x		x	x
31.	Clinical Pharmacology	x			x	x		x	x
32.	General Surgery	x			x	x		x	x
33.	Surgical Diseases	x			x	x		x	x
34.	Anesthesia and resuscitation								
35.	Radio-diagnostics	x			x	x		x	x
36.	Neurology	x							
37.	Ophthalmologic Diseases	x						x	
38.	Ear, throat, nose Diseases	x			x				
39.	Dermato-venereal Diseases	x							
40.	Infectious Diseases	x			x	x		x	
41.	Psychiatry				x			x	
42.	Forensic Medicine	x		x					
43.	Obstetrics	x			x				
44.	Pediatrics	x			x		x	x	
45.	Medicine of Emergency Situations	x			x	x		x	x
46.	First Aid				x			x	
47.	The Propedeutics of Therapeutic Dentistry	x				x			x
48.	Prevention of Dental Diseases								
49.	Cariesology and Dental Fracture Tissue Diseases and Prevention	x							
50.	Endodontics	x							
51.	Periodontics	x							
52.	Oral Cavity Mucous Membrane	x							
53.	Phytotherapy in dentistry	x	x		x	x		x	x
54.	Acupuncture in Dentistry	x	x		x	x		x	x
55.	Physiotherapy in Dentistry					x			x
56.	Propedeutics of Surgical Dentistry	x				x			x
57.	Local anesthesia and anesthesiology in dentistry	x							
58.	Oral cavity surgery								

N		GE-1	GE-2	GE-3	GE-4	GE-5	GE-6	GE-7	GE-8
59.	Implantology and Oral Cavity Reconstructive Surgery								
60.	Jaw-Facial surgery								
61.	Material Science	x				x			
62.	Propedeutics of orthopedic dentistry	x				x			x
63.	Teeth Simple Prosthetics	x							
64.	Prosthetics at Complete Edentulism	x							
65.	Teeth Hard Prosthetics	x							
66.	Children's Therapeutic Dentistry								
67.	Children's Surgical Dentistry								
68.	Orthodontics & Children's Denture								
69.	Genetic Diseases	x			x	x			

The Formation of 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.	Armenian Language	x	x			x					
2.	History of Armenia										
3.	Physical Training										
4.	Philosophy			x	x						
5.	Latin	x	x	x		x					
6.	History of Medicine	x	x								
7.	General Psychology			x	x						
8.	Medical Psychology		x	x	x						
9.	Foreign Language	x	x			x					
10.	Medical Physics				x		x				x
11.	Mathematics and Medical Informatics	x	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, Biochemistry of Oral Cavity	x	x				x	x	x		
16.	Human Anatomy, Anatomy of Head & Neck	x					x		x		
17.	Normal Physiology, Physiology of Jaw-Facial region	x	x	x	x		x		x		
18.	Microbiology, Microbiology of Oral Cavity	x			x	x		x	x		
19.	Immunology, clinical immunology	x			x			x	x		
20.	Histology, Embryology, Histology of Oral Cavity	x					x		x		
21.	Pathological Anatomy, Pathological Anatomy of Head & Neck	x		x	x	x			x		
22.	Pathological Physiology, Pathological Physiology of Head & Neck	x			x		x		x		
23.	Morphology and Physiology of Herbs	x	x		x	x		x			
24.	Pharmacognosy	x	x		x	x		x			
25.	Pharmacology	x	x		x	x		x			
26.	Epidemiology	x				x					
27.	Hygiene	x	x				x		x		
28.	Public Health, Healthcare	x	x	x		x					
29.	Propedeutics of internal diseases		x	x	x	x			x		x

N		GPE-1	GPE-2	GPE-3	GPE-4	GPE-5	GPE-6	GPE-7	GPE-8	GPE-9	GPE-10
30.	Internal diseases	X		X			X	X	X		
31.	Clinical Pharmacology	X		X			X	X	X		
32.	General Surgery				X	X		X	X		X
33.	Surgical Diseases				X	X		X	X		X
34.	Anesthesia and resuscitation			X	X			X	X	X	
35.	Radio-diagnostics	X	X	X	X	X			X		X
36.	Neurology			X				X	X		
37.	Ophthalmologic Diseases	X			X	X		X	X	X	
38.	Ear, throat, nose Diseases			X	X	X		X	X		X
39.	Dermato-venereal Diseases							X	X		
40.	Infectious Diseases	X		X	X	X		X	X	X	
41.	Psychiatry		X	X	X			X		X	
42.	Forensic Medicine	X	X	X	X	X	X		X		
43.	Obstetrics			X	X	X					
44.	Pediatrics	X	X	X	X	X		X	X	X	
45.	Medicine of Emergency Situations	X		X	X		X	X	X	X	X
46.	First Aid			X	X			X	X	X	
47.	The Propedeutics of Therapeutic Dentistry	X	X	X	X	X	X	X	X		X
48.	Prevention of Dental Diseases					X			X		
49.	Cariesology and Dental Fracture Tissue Diseases and Prevention	X			X	X	X	X	X		X
50.	Endodontics	X			X	X	X	X	X		X
51.	Periodontics	X			X	X		X	X		X
52.	Oral Cavity Mucous Membrane	X			X	X		X	X		X
53.	Phytotherapy in dentistry	X	X	X	X	X		X	X		
54.	Acupuncture in Dentistry	X	X	X	X			X	X		
55.	Physiotherapy in Dentistry		X	X	X	X		X			
56.	Propedeutics of Surgical Dentistry	X	X	X	X	X	X	X	X		X
57.	Local anesthesia and anesthesiology in dentistry	X			X		X	X	X		X
58.	Oral cavity surgery	X			X	X		X	X		X
59.	Implantology and Oral Cavity Reconstructive Surgery	X			X	X		X	X		X
60.	Jaw-Facial surgery	X			X	X		X	X		X
61.	Material Science	X	X		X		X	X			X
62.	Propedeutics of orthopedic dentistry	X	X	X	X	X	X	X	X		X

N		GPE-1	GPE-2	GPE-3	GPE-4	GPE-5	GPE-6	GPE-7	GPE-8	GPE-9	GPE-10
63.	Teeth Simple Prosthetics	x	x		x	x		x	x		x
64.	Prosthetics at Complete Edentulism	x	x		x	x		x	x		x
65.	Teeth Hard Prosthetics	x	x		x	x		x	x		x
66.	Children's Therapeutic Dentistry					x		x	x		
67.	Children's Surgical Dentistry					x		x	x		
68.	Orthodontics & Children's Denture			x	x						
69.	Genetic Diseases	x			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
1.	Armenian Language																		
2.	History of Armenia																		
3.	Physical Training																		
4.	Philosophy																		
5.	Latin																x		
6.	History of Medicine																		
7.	General Psychology					x					x		x						
8.	Medical Psychology	x									x		x						
9.	Foreign Language																		
10.	Medical Physics																	x	
11.	Mathematics and Medical Informatics				x											x	x	x	
12.	General Chemistry	x										x	x					x	
13.	Bioorganic Chemistry	x										x	x					x	
14.	Biology																		
15.	Biochemistry, Biochemistry of Oral Cavity	x												x				x	
16.	Human Anatomy, Anatomy of Head & Neck																		
17.	Normal Physiology, Physiology of Jaw-Facial region	x											x	x			x	x	
18.	Microbiology, Microbiology of Oral Cavity	x		x		x	x		x				x				x	x	x
19.	Immunology, clinical immunology	x	x		x	x				x			x						
20.	Microbiology, Microbiology of Oral Cavity, Histology of Oral Cavity																		
21.	Pathological Anatomy, Pathological Anatomy of Dental system and Oral Cavity					x	x												x
22.	Pathological Physiology, Pathological Physiology of of Head & Neck	x				x	x										x	x	
23.	Morphology and Physiology of Herbs									x									
24.	Pharmacognosy									x									
25.	Pharmacology			x					x	x	x	x							x
26.	Epidemiology	x		x							x						x	x	
27.	Hygiene	x		x	x							x	x	x					x

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
28.	Public Health, Healthcare	x	x		x								x	x	x	x	x		x
29.	Propedeutics of internal diseases	x				x					x								
30.	Internal diseases	x						x			x	x		x					x
31.	Clinical Pharmacology	x						x			x	x		x					x
32.	General Surgery					x					x								x
33.	Surgical Diseases					x					x								x
34.	Anesthesia and resuscitation	x							x										
35.	Radio-diagnostics	x	x			x	x												
36.	Neurology	x				x	x						x	x					
37.	Ophthalmologic Diseases										x			x					
38.	Ear, throat, nose Diseases	x					x												x
39.	Dermato-venereal Diseases	x				x	x		x	x		x		x					
40.	Infectious Diseases	x	x	x			x		x					x	x				x
41.	Psychiatry	x					x				x			x					
42.	Forensic Medicine	x				x	x	x						x					x
43.	Obstetrics											x		x					x
44.	Pediatrics	x	x			x	x		x				x	x					x
45.	Medicine of Emergency Situations	x		x							x								x
46.	First Aid	x									x								
47.	The Propedeutics of Therapeutic Dentistry		x			x			x										x
48.	Prevention of Dental Diseases	x	x		x	x	x		x	x			x	x					
49.	Cariesology and Dental Fracture Tissue Diseases and Prevention	x				x	x		x	x		x	x	x					x
50.	Endodontics	x				x	x		x	x		x	x	x					x
51.	Periodontics	x	x			x	x		x	x		x	x	x					x
52.	Oral Cavity Mucous Membrane	x	x			x	x		x	x		x	x	x					x
53.	Phytotherapy in dentistry	x							x			x							x
54.	Acupuncture in Dentistry	x							x										x
55.	Physiotherapy in Dentistry								x			x							x
56.	Propedeutics of Surgical Dentistry		x			x			x										x
57.	Local anesthesia and anesthesiology in dentistry					x	x		x										x
58.	Oral cavity surgery		x			x	x		x	x		x							x
59.	Implantology and Oral Cavity Reconstructive Surgery					x	x		x	x		x							x
60.	Jaw-Facial surgery					x	x		x	x		x							x
61.	Material Science																		x

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
62.	Propedeutics of orthopedic dentistry		x			x			x								x	x	x
63.	Teeth Simple Prosthetics	x				x	x		x	x					x		x		
64.	Prosthetics at Complete Edentulism	x				x	x		x	x							x		
65.	Teeth Hard Prosthetics	x				x	x		x	x							x		
66.	Children's Therapeutic Dentistry	x				x	x		x	x		x							
67.	Children's Surgical Dentistry	x				x	x		x	x		x							
68.	Orthodontics & Children's Denture	x				x	x		x	x			x	x			x	x	x
69.	Genetic Diseases	x			x	x	x		x					x			x		

I approve

The President of Scientific Council

Rector

N. Kh. Saribekyan

«15» May 2018



Appendix

Course Descriptions

of the PEP /continuous and integrated/ of 091101.00.7 "Dentistry"

COURSE'S NAME	HISTORY OF ARMENIA		
COURSE'S TYPE	Compulsory		
EDUCATIONAL LEVEL	CONTINUOUS AND INTEGRATED EDUCATIONAL PROGRAM		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
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)
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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	34	17	26	13		+
Total		3	17	3	90	51	34	17	26	13		

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. AIM AND OBJECTIVE OF THE SUBJECT.		
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		
<ul style="list-style-type: none"> ▪ 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: <i>At the end of the course the student should:</i>		
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		
<ol style="list-style-type: none"> 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		
EDUCATIONAL LEVEL	CONTINUOUS AND INTEGRATED EDUCATIONAL PROGRAM		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
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. Glending, 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. Mária Györfy, 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		
EDUCATIONAL LEVEL	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	I	SEMESTER	I
ACADEMIC YEAR	2018-2019		

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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	34	17	25	14		+
Total		3	17	3	90	51	34	17	25	14		

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

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

- 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 Sinaï, 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		
EDUCATIONAL LEVEL	CONTINUOUS AND INTEGRATED EDUCATIONAL PROGRAM		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	I	SEMESTER	I - IV
ACADEMIC YEAR	2018-2019		

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CHAIR	Humanitarian subjects
CLINICAL BASE	Milena Gym
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.П. 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		
EDUCATIONAL LEVEL	CONTINUOUS AND INTEGRATED EDUCATIONAL PROGRAM		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
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. L.K.Muradyan, "Learning to read, write, speak Armenian" manual for English-speaking foreigners, Yerevan, 2011.
3. A. V. Gevorkian, "East Armenian Course", Yerevan, 2000.
4. A. Sh. Avetisyan, "Armenian Language" (Manual for English-speaking students), Texts and Exercises, Yerevan, 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

COURSE'S NAME	LATIN		
COURSE'S TYPE	Compulsory		
EDUCATIONAL LEVEL	CONTINUOUS AND INTEGRATED EDUCATIONAL PROGRAM		
FORM OF EDUCATION	Full-time		
SPECIALTY	Dentistry		
DEPARTMENT	Stomatological		
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 bilinguism, 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, medical 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		
EDUCATIONAL LEVEL	CONTINUOUS AND INTEGRATED EDUCATIONAL PROGRAM		
FORM OF EDUCATION	Full-time		
SPECIALTY	Dentistry		
DEPARTMENT	Stomatological		
YEAR	II	SEMESTER	III
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 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
III	IV	3	17	3	90	51	34	17	25	14		+
Total		3	17	3	90	51	34	17	25	14		

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	Dentistry		
YEAR	I	SEMESTER	II
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Armen Grigoryan Greta Ulikhanyan
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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	25	14		+
Total		3	17	3	90	51	24	27	25	14		

1. INTRODUCTION. <i>In order to master the course,</i> 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 AND OBJECTIVES 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
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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	Dentistry		
YEAR	I	SEMESTER	
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Norik Saribekyan Neli Ghukasyan
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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 AND OBJECTIVES 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. Դումանյան Կ.Հ., Մելիքյան Ե.Ա. Բուսաբանություն, Երևան, 2011, 348էջ
2. Kingsley R., James E., Shelley H. Plant Biology; Edition Eleven, 616 p., 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	Dentistry		
YEAR	III	SEMESTER	V, VI
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
III	IV	3	17	3	90	51	16	35	26	13		+
	V	3	17	3	90	51	16	35	25	14	+	
Total		6	34	6	180	102	32	70	51	27		

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 AND OBJECTIVES 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	Dentistry		
YEAR	II	SEMESTER	III
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	18	16	17	9		+
Total		2	17	2	60	34	18	16	17	9		

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	Dentistry		
YEAR	I	SEMESTER	II
ACADEMIC YEAR	2018-2019		

MADE BY	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
I	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

3.1. 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.

3.2. 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, BIOCHEMISTRY OF ORAL CAVITY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	II	SEMESTER	III, IV
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Hayarpi Javrushyan
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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	III	4	17	4	120	68	26	42	34	18	
	IV	IV	2	17	2	60	34	14	20	17	9	+
Biochemistry of O/C												
II	IV	2	17	2	60	34	8	26	17	9	+	2
Total		8	8	51	8	240	136	48	88	68	36	

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. Biochemistry of oral cavity, composition of saliva, enzymes, their activity, mineralization, organic and inorganic elements, dentine, enamel, dental plaque, protein composition, structural features of collagen, elastin, amino acid composition, biosynthesis and maturation.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. 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. As well, provide sufficient knowledge about the structural and metabolic features of the oral cavity tissue.

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, М., 2002
6. Т. Березов, Б. Коровкин, Биологическая Химия, Москва, 2008
7. Գ. Խաչատրյան, Մ. Աղաջանյան, Շենսարիմիա, Երևան, 2001
8. <http://pubmed.gov>
9. <http://www3.interscience.wiley.com/cgi-bin/>
10. <http://www.freebooks4doctors.com>
11. <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	Dentistry		
YEAR	IV	SEMESTER	VII
ACADEMIC YEAR	2018-2019		

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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	25	14		
Total		4	17	3	90	51	18	33	25	14		

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 studying.

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, 13 th 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	Dentistry, Dentistry		
YEAR	I	SEMESTER	I, 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
I	I	3	17	3	90	51	18	33	25	14		+
	II	2	17	2	60	34	16	18	17	9		+
Total		5	34	5	150	85	34	51	42	23		

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. Hovhannisyan, 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. A. 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	GENERAL CHEMISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	I	SEMESTER	I
ACADEMIC YEAR	2018-2019		

MADE BY	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	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, 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.

3.1. 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
Absent	-	A+
		A

SUBJECT	PATHOLOGICAL ANATOMY, MAXIOFACIAL AND ORAL CAVITY PATHOLOGICAL ANATOMY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	II, III	SEMESTER	IV, V
ACADEMIC YEAR	2018-2019		
MADE BY	Ph, Associate professor Lusine Aghabekyan M.D. Asadoor Amirkhani Namagerdi (external stakeholder)		
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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	3	17	3	90	51	20	31	25	14		+
III	V	2	17	2	60	34	14	20	17	9	+	
Maxiofacial and oral cavity Pathological anatomy												
III	V	2	17	2	60	34	8	26	17	9		
Total		7	34	7	210	119	42	77	59	32		

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.

The students study the oropharyngeal pathologies more deeply since it is more important in their future speciality.

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 and dentistry practice.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:		
<p>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 and morphologic changes in oropharyngeal pathologies.</p> <p>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, and be able to diagnose common oropharyngeal pathologies.</p> <p>Master to work with macroscopic and microscopic anatomic pathology preparations and interpret the pathologic processes.</p>		
5. LITERATURE		
<ol style="list-style-type: none"> 1. «<i>Պարորդիական անատոմիա</i>», հեղինակ-խմբագիր պրոֆ. Ն.Դ. Վարդապարյան, Երևան, 2006: 2. «<i>Патологическая анатомия</i>». Под ред. А.И. Струкова, В.В. Серова. Учебник. Переиздание. –М.: ОАО Издательство «Медицина», 2015. 3. Vinay Kumar, Abul K. Abbas, Jon C. Aster. <i>Robbins Basic Pathology</i>, 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, HEAD AND NECK PATHOPHYSIOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	III	SEMESTER	V, VI
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Narek Mkrtchyan Lilit Sukiasyan MD Asador Amirkhani Namagerdi (external stakeholder)		
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E-MAIL	narksm@gmail.com , lilit.sukiasyan@inbox.ru , asador.amirkhanian6@gmail.com		

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	3	17	3	90	51	22	29	25	14		+
	VI	2	17	2	60	34	12	22	17	9	+	
Head and Neck Pathophysiology												
III	VI	2	17	2	60	34	8	26	17	9		
Ընդամենը		7	34	7	210	119	42	77	59	32		

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, routs of transmission, hematologic and cardiovascular diseases and systemic pathophysiology including respiratory, gastrointestinal, genitourinary, endocrine and nervous systems diseases. The students learn the pathophysiology of oropharyngeal pathologies as well, since it is emphasized in their future speciality.

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:		
<p>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 medical and dental practice with an emphasis on the common oropharyngeal disorders.</p> <p>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.</p> <p>Master experiments in laboratory animals according to standard rules and models regarding different pathophysiologies in different organs and systems.</p>		
5. LITERATURE		
<ol style="list-style-type: none"> 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	Dentistry		
YEAR	V	SEMESTER	IX
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
V	IX	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, 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, Կ.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. Textbook of Forensic Medicine and Toxicology; Krishan Vij; 5d Edition, ELSEVIER, 2011, 593p.
5. Simpson's Forensic Medicine; 13rd Edition, 2011 Hodder & Stoughton Ltd; 253p.

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, O/C HISTOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
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	4	17	4	120	68	18	50	34	18		+
II	III	3	17	3	90	51	8	43	25	14	+	
O/C HISTOLOGY												
II	III	2	17	2	60	34	8	26	17	9		
Total		9	34	9	270	153	34	119	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, o/c histology 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. Histological structure of the oral cavity is of great interest to the dental students.

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	Dentistry		
YEAR	I	SEMESTER	I, II
ACADEMIC YEAR	2018-2019		

MADE BY	PhD, Associated Professor Inga Bazukyan
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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	I	5	17	5	150	85	26	59	42	23	+	
	II	3	17	3	90	51	14	37	25	14	+	
Total		8	34	8	240	136	40	96	67	37		

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. Brandenberg, 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, ORAL MICROBIOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	II	SEMESTER	III, IV
ACADEMIC YEAR	2018-2019		

MADE BY	PhD, Armine Margaryan PhD, Associated Professor Hovik Panosyan
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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
II	III	4	17	4	120	68	20	48	34	18		+
	IV	2	17	2	60	34	12	22	17	9	+	
Oral Microbiology												
II	IV	2	17	2	60	34	8	26	17	9		
Total		8	34	8	240	136	40	96	68	36		

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

General Microbiology and Immunology

- 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, Pathogens of Oral Cavity

- 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.
- Microbiome of oral cavity, microbial adhesion

Caries, pulpitis, periodontal and paradental diseases.

3. AIM AND OBJECTIVES 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.

The main objectives of the course are:

- General understanding of structural and functional peculiarities of microbes as living systems, their role in ecology.
- Infection patterns, infections, epidemiology of infectious diseases, clinical course of infectious diseases and chemotherapy.
- The principles of microbiological, molecular-biological and immunological investigations of biological fluids, virus-containing specimens and pure cultures of microorganisms and analysis of obtained results.
- Training of bacterial, fungal, parasitic and viral diseases, measures to prevent them, as well as methods of main treatment.
- Introduction to the principles of work organization in bacteriological laboratory, technical safety and student protection measures.
- Formation of students' skills of working with scientific literature.

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's Medical 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. Philip Marsh, Michael Lewis, David Williams, Philip Marsh, Michael Martin, Michael Lewis, David Williams, Oral Microbiology, 5th Edition, 2009, Churchill Livingstone, pp. 232
5. Practical handbook of microbiology. Eds, Goldman E. and Green L.H. 2nd ed. CRC Press. Taylor & Francis Group, 2009, 854 p.
6. Dahlén G., Fiehn N.-E., Olsen I., Dahlgren U. Oral Microbiology and Immunology, Munksgaard Danmark, 2014:
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, HEAD/ NECK ANATOMY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	I, II	SEMESTER	I, II, III
ACADEMIC YEAR	2018-2019		

MADE BY	DMedSc Arsen Minasyan Nina Khlghatyan
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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	I	4	17	4	120	68	18	50	34	18	+	
	II	4	17	4	120	68	20	48	34	18	+	
II	III	2	17	2	60	34	14	20	17	9	+	
Regional anatomy of head and neck												
II	III	2	17	2	60	34	10	24	17	9		
Total		12	51	12	360	204	62	142	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; the regional anatomy of the head and neck.

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. F. Netter, Atlas of Human Anatomy, 6th Edition, Amsterdam, 2014
2. Keith L. Moore Clinically Oriented Anatomy 7th Edition, 2017
3. 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, NORMAL PHYSIOLOGY OF MAXIOFACIAL REGION		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	II	SEMESTER	III, IV
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
II	III	4	17	4	120	68	24	44	34	18	+	
	IV	2	17	2	60	34	14	20	17	9	+	
Normal Physiology of Maxiofacial Region												
	IV	2	17	2	60	34	8	26	17	9		
Total		8	34	8	240	136	46	90	68	36		

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. Physiology of the dental region is also included. This section is for acquainting students with functioning properties of the maxillofacial organs, introducing communicatory and respiratory functions of the oral cavity, interaction of oral and maxillofacial organs with different organ systems, pain and nociception, and peculiarities of the tooth pain.

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. Also, the students will study the functional peculiarities of the dental region organs.

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, lancer, 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. Ադամյան, Ն.Վ. Սարգսյան, «Մարդու ֆիզիոլոգիա», Երևան, «Զանգակ-97», 2009թ.
4. *Մարդու ֆիզիոլոգիայի հիմունքներ*: Դ.Ն. Խուդավերդյան, Վ.Բ. Ֆանարջյան, Երևան, 1998:
5. Косицкий Г.И. *Нормальная физиология*, М., 1984г.
6. *Նորմալ ֆիզիոլոգիայի գործնական աշխատանքների ձեռնարկ*, Սարգսյան Ս.Հ., ուսումնամեթոդական 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	FIRST AID		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	II	SEMESTER	III
ACADEMIC YEAR	2018-2019		

MADE BY	Anna Sargsyan, PhD
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CHAIR	Therapeutic subjects
CLINICAL BASE	UTM SMTC, "St. 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
II	III	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,*

Biology, Latin, Human Anatomy, Normal Physiology

2. SHORT SUMMARY OF THE SUBJECT

The subject examines general principles of first aid, clinical and biological death, resuscitation, aseptic and antiseptic, acute vascular insufficiency syndrome, heart acute deficiency syndrome, coronary acute malformations syndrome, sudden death, hypotension syndrome, migraine, bleeding, fractures, hyperthermic, intoxication, syndromes, developing comatose condition due to sugar diabetes, broncho and laryngospasms, pneumothorax, hemothorax, acute abdominal intoxication syndrome, intestinal toxicosis, exogenous poisoning, allergies, and accident syndrome.

3. AIM AND OBJECTIVES OF THE SUBJECT

The purpose of the first medical aid training course is to teach students basic pathogenic problems and pathological expressions of clinical conditions that occur due to heavy accidents and acute therapeutic, surgical, neurological diseases, and are a life-threatening for patients. Principles of first medical aid are also taught.

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

The basic principles of first aid, the peculiarities of the acute condition and the general principles of care, the bandage rules.

Be able

Make local disinfection and treatment, carry out first aid in acute conditions/ bleeding, fractures, injuries, allergy/, use the first aid kit, ingredients and medications.

Master

Methods of stopping the external bleeding, bandage rules, disinfection means, resuscitation principles, and diagnostic methods of acute states.

5. LITERATURE

1. First aid book. New Zealand, march 2015.
2. First aid. HEADQUARTERS DEPARTMENT OF THE ARMY, THE NAVY, AND THE AIR FORCE Washington, DC, 23 December 2002.
3. International first aid and resuscitation guidelines 2016. International Federation of Red Cross and Red Crescent Societies. Geneva, 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	MEDICINE OF EMERGENCY SITUATIONS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	IV	SEMESTER	VIII
ACADEMIC YEAR	2018-2019		

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CHAIR	Surgical subjects
CLINICAL BASE	Artmed MC
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	VIII	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,*

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 կենսապահպանություն 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	Dentistry		
YEAR	I	SEMESTER	II
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
I	II	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,*

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 Psychology, 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	EPIDEMIOLOGY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	IV	SEMESTER	VII
ACADEMIC YEAR	2018-2019		

MADE BY	PhD, Associate Professor Albert Danilov PhD Anna Sargsyan
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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	VII	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,*

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 Վ.Մ., Համբարձումյան Ա.Ձ., «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	Dentistry		
YEAR	IV	SEMESTER	VII
ACADEMIC YEAR	2018-2019		

MADE BY	PhD, Associate Professor Albert Danilov PhD Anna Sargsyan
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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	VII	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,*

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	Dentistry		
YEAR	III	SEMESTER	VI
ACADEMIC YEAR	2018-2019		

MADE BY	PhD, Associate Professor Albert Danilov PhD Anna Sargsyan
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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
III	VI	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,*

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	Dentistry		
YEAR	I	SEMESTER	I
ACADEMIC YEAR	2018-2019		

MADE BY	PhD, Associate Professor Mariana Avetisyan
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CHAIR	Humanitarian subjects
CLINICAL BASE	UTM SMTC
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
I	I	3	17	3	90	51	34	17	26	13		+
Total		3	17	3	90	51	34	17	26	13		

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	III	SEMESTER	VI
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Anna Sargsyan
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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
III	VI	2	17	2	60	34	18	16	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	SEMESTER	VIII
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	24	27	26	13		+
Total		3	17	3	90	51	24	27	26	13		

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

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. И.А. БЕРЕЖНОВА Инфекционные болезни: Учеб. пособие. — М.: РИОР,
2. 2007.-319 с.
3. Е. И. Змушко, Е. П. Шувалова “ Инфекционные болезни ”, СпецЛит, Санкт-Петербург, 2015 г.
4. CHANDY C. JOHN,“ Advances in the Diagnosis and Treatment of Pediatric Infectious Diseases”, USA, 2013; 542p.
5. Jonathan Cohen, Steven M Opal, William G Powderly “Infectious diseases”, 3 Edition; Elsevier, 2010; 1990p.

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	Dentistry		
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	Individual work (hours)	Consultation by lecturer	Examination	Test
III	V	3	17	3	90	51	24	27	25	14		+
Total		3	17	3	90	51	24	27	25	14		

<p>1. INTRODUCTION. <i>In order to master the course,</i> The knowledge of the medical university curriculum includes the following subjects: human anatomy, chemistry, physics, bioethics, psychology, normal physiology.</p>
<p>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.</p>
<p>3. AIM AND OBJECTIVES OF THE SUBJECT 3.1. Aim of subject: aim of teaching and learning of the academic discipline " Radiology" is to prepare the students of the Stomatology 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.</p>
<p>4. EDUCATIONAL OUTCOMES: At the end of the course the student should:</p> <p>Know</p> <ul style="list-style-type: none"> - 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. <p>Be able</p> <ul style="list-style-type: none"> - to detect diagnostic data on the X-ray images and based on that data to make the diagnostic conclusions. <p>Master</p> <ul style="list-style-type: none"> - the skills about the principles of the modern radiological equipment.

5. LITERATURE		
1. Methodical aids of chair.		
2. J. Benseler, The Radiology Handbook, Athens, 2006,		
3. M. Chen, T. Pope, D. Ott, Basic Radiology, New York, 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	PSYCHIATRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	V	SEMESTER	IX
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	Total hours	Auditorium hours	Lectures (hours)	Practice (hours)	Individual work (hours)	Consultation by lecturer	Examination	Test
V	IX	2	17	2	60	34	24	10	17	9		+
Total		2	17	2	60	34	24	10	17	9		

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; hystology, internal diseases, neurology, medical psychology, pharmacology, clinical pharmacology.

2. SHORT SUMMARY OF THE SUBJECT

"Psychiatry" is a educational discipline which icludes 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	Dentistry		
YEAR	IV	SEMESTER	VIII
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Associate Professor, Sahakanush Arustamyan Marina 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
IV	VIII	2	17	2	60	34	20	14	17	9		+
Total		2	17	2	60	34	20	14	17	9		

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

The knowledge of the medical university curriculum includes the following subjects: anatomy, Dentistry, 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

Aim of subject: 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. E. Crain , J. Gershel , S. Cunningham, “Clinical Manual of Emergency Pediatrics”, Cambridge, 2010.
2. E. Crain, “Clinical Manual of Emergency Pediatrics”, Cambridge, 2011.
3. R. Tasker, R. McClure, C. Acerini, “Oxford Handbook of Pediatrics”, Oxford, 2013.
4. Ա. Բարլոյան, Ն. Բաղդասարյան, Մ. Օհանյան, Ա. Ղազարյան, Հ. Սուքիասյան, «Մանկաբուժություն: Ուսումնական ձեռնարկ ընդհանուր բժշկության ֆակուլտետի ուսանողների համար», Երևան, 2010.
5. Ռ. Մինասյան, «Մանկական հիվանդությունների տարբ. ախտորոշում», Երևան, 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

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

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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	VIII	3	17	3	90	51	24	27	25	17		+
Total		3	17	3	90	51	24	27	25	17		

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

Aim of subject: 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.
3. 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	Dentistry		
YEAR	III	SEMESTER	VI
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
III	VI	3	17	3	90	51	18	33	26	13		+
Total		3	17	3	90	51	18	33	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, 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

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 etiology 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, Թորքաբանության դասընթաց, Երևան, 2003
3. Ռ. Ստամբուլցյան, Լ. Միքայելյան, Լ. Շուշանյան, Ներքին հիվանդություններ, Ռ. Ստամբուլցյանի ընդհանուր խմբագրությամբ, Երևան, 1988
4. А. О कोरोков, диагностика шнутренных болезней, Москва, 2003
5. А. Струтынский, А. Баранов, Г. Ройтберг, Ю. Галоненков, Основы семиотики заболеваний внутренних органов, Атлас, Москва, 2005
6. А. Струтынский, Г. Ройтберг, Внутренние болезни, Основы семиотики заболеваний внутренних органов, Атлас, Москва, 2003
7. В. Милькаманавич, Атлас клинического исследования, учеб. пособие , Москва, 2006
8. В. Walter and others, Davidson's Principles and Practice of Medicine, 22nd Edition, Amsterdam, 2014
9. 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	Dentistry		
YEAR	II, III	SEMESTER	IV; V
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
II	IV	2	17	3	60	51	16	35	7	2		+
III	V	3	17	3	90	51	16	35	25	14	+	
Total		5	34	6	150	102	32	70	32	16		

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	Dentistry		
DEPARTMENT	Dentistry		
YEAR	IV	SEMESTER	VII
ACADEMIC YEAR	2018-2019		

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

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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	3	17	3	90	51	24	27	26	13	+	
Total		3	34	3	90	51	24	27	26	13		

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

MADE BY	PhD Anahit Vardanyan
TELEPHONE	-
E-MAIL	-

CHAIR	Clinical Subjects
CLINICAL BASE	"St. Gregory the Illuminator" 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	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, 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. Methodical aids of chair.		
2. Oxford Handbook of Ophthalmology; Alastair Denniston (Editor); third edition; Oxford Medical Handbooks; 2014. – 1027p.		
3. 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	Dentistry		
YEAR	V	SEMESTER	X
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Rita Virabyan
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CHAIR	Surgical subjects
CLINICAL BASE	"Artmed" MC.
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	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, 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

3.1. 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	DENTISTRY		
YEAR	III	SEMESTER	VI
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Robert Frangulyan PhD Siranush Mkrtchyan (external stakeholder)
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E-MAIL	-

CHAIR	Clinical Subjects
CLINICAL BASE	"St. Gregory the Illuminator" 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
III	VI	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, pathological anatomy, normal physiology, pathological physiology, operative surgery and topographic anatomy, general surgery, surgical diseases, histology, 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

3.1. 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		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	IV	SEMESTER	VII- VIII
ACADEMIC YEAR	2018-2019		

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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	2	17	2	60	34	12	22	17	9		+
	VIII	2	17	2	60	34	12	22	17	9		+
Total		4	34	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: 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 physiological and pathological processes occurring in the pregnancy woman's body, in childbirth and the postpartum period, and also develops methods of obstetric aid, prevention and treatment of pregnancy and childbirth complications. The subject includes the following chapters: physiological and pathological obstetric.

3. AIM OF THE SUBJECT

Aim of subject " Obstetrics and gynecology " is:

- to teach students the basics of the female body physiology in the pregnancy childbirth and the postpartum periods, methods of obstetric aid; etiopathogenesis, clinic, symptoms, diagnosis, treatment and prevention of the main types of 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.

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

Know

- The theoretical problems of obstetrics;
- The survey plan for a pregnant woman;
- The main symptoms of the most common obstetric pathology: 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, 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.

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	SURGICAL DISEASES		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	III	SEMESTER	VI
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
III	VI	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, 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" is a educational discipline which studies surgical diseases, principles and methods of their diagnosis and treatment.

During the 6th semesters students study the basics of thoracic and abdominal surgery.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of subject: aim of teaching and learning of the academic discipline " Surgical diseases " is to study the surgical diseases of the thorax abdomen, the principles and methods of their differential diagnosis and treatment.

3.2. Course Objectives:

* Detect the main surgical syndromes and diagnose the main surgical diseases in thoracal and abdominal surgery.

* Introduce ways of surgical treatment for the thorax and abdomen diseases.

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

- the main surgical diseases of thorax and abdomen: their etiology pathogenesis, clinic, diagnostic features and the most effective treatments.

Be able

- to organize for thoracal and abdominal surgical patient's adequate surgical diagnosis and treatment;

Master

- the skills of the differential diagnosis of surgical diseases of thorax and abdomen.

5. LITERATURE

1. Methodical aids of chair.
2. Atlas of general surgical techniques / [edited by] Courtney M. Townsend Jr., B. Mark Evers. -- 1s 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	GENERAL SURGERY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	DENTISTRY		
YEAR	III	SEMESTER	V
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
III	V	3	17	3	90	51	20	31	26	13	+	
Աղյուսակը		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, 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.

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. Methodical aids of chair.
2. Atlas of general surgical techniques / [edited by] Courtney M. Townsend Jr., B. Mark Evers. -- 1s ed.
3. Essentials of general surgery; Peter F. Lawrence; fifth edition, London 2007.
4. 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	ACUPUNCTURE IN DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	V	SEMESTER	X
ACADEMIC YEAR	2018-2019		

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CHAIR	Traditional medicine named after E. Minasyan
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
V	X	3	17	4	90	68	22	46	16	6		+
Total		3	17	4	90	68	22	46	16	6		

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

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 AND OBJECTIVES 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 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. 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	PHYTOTHERAPY IN DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	IV	SEMESTER	VIII
ACADEMIC YEAR	2018-2019		

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CHAIR	Traditional medicine named after E. Minasyan
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	17	9		+
Total		2	17	2	60	34	18	16	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, pathological physiology, histology, biology, physics, chemistry, biochemistry, pharmacology, clinical pharmacology.

2. SHORT SUMMARY OF THE SUBJECT

"Phytotherapy" is an 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

Aim of the 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 IN DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	V	SEMESTER	X
ACADEMIC YEAR	2018-2019		

MADE BY	PhD Eleonora Minasyan
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CHAIR	Traditional medicine named after E. Minasyan
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
V	X	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, 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 discipline " Physiotherapy in stomatology" is to train stomatologist who will have the theoretical knowledge and practical skills from types and methods of physiotherapy in dentistry.

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, mainly in dental field.

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	MAXILLOFACIAL SURGERY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	V	SEMESTER	IX, X
ACADEMIC YEAR	2018-2019		

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CHAIR	Stomatology
CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	DmedSc, professor V. Kirakosyan

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	60	51	12	39	26	13		+
	X	2	17	3	60	51	12	39	6	3		+
Total		5	34	6	150	102	24	78	32	16		

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

- Human Anatomy
- Histology
- Normal physiology
- Physics
- Chemistry
- Pathological physiology
- Pathological Anatomy
- Pharmacology
- Propedeutics of Surgical Dentistry
- Surgical Dentistry

2. SHORT SUMMARY OF THE SUBJECT

The Course of “Maxillofacial surgery” studies diagnosis of maxillofacial surgical diseases and injuries, distinctive diagnosis, the principles of diagnosis, mistakes and complications during treatment and their prevention.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of the course of “Maxillofacial surgery” is to study the etiology of maxillofacial surgical diseases, pathology, clinic, diagnosis and treatment, to give knowledge about specialized maxillofacial interventions under the conditions of the stationary

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

Know maxillofacial anatomy, pathogenesis of complications of maxillofacial gastrointestinal distress, research methods, diagnosis of maxillofacial diseases, treatment method, congenital and acquired deformities and defects in the maxillofacial region, their modern treatment method, dental syndromes, methods of treatment of neoplasms.

Master diagnosis of maxillofacial diseases, modern methods of differential diagnosis, conservative and surgical interventions, prophylactics of Maxillofacial organs diseases.

5. LITERATURE

1. Յ. Պողոսյան, Ա. Մեայան, Տեղային անզգայնացումը ստոմատոլոգիայում, Երևան, 2007;
2. Յ. Պողոսյան, Հ. Ենոբյան, Քունքստործնոտային հոդի հիվանդություններ, Երևան, 2009;
3. А. Пейпл, Пластическая и реконструктивная хирургия, Москва, 2007;
4. G. Byrne, Fundamentals of Implant Dentistry, Dublin, 2014;
5. N. Malik, Textbook of Oral and Maxillofacial surgery, London, 2012.

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	GENETICALLY CONDITIONED DISEASES		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	V	SEMESTER	X
ACADEMIC YEAR	2018-2019		

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CHAIR	Stomatology
CLINICAL BASE	UTM SMTC, Stom Line dental Clinic
HEAD OF THE CHAIR	DmedSc, professor V. Kirakosyan

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	2	60	34	8	26	17	9		+
Total		2	17	2	60	34	8	26	17	9		

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

- Anatomy
- Biology
- Physiology
- Chemistry
- Prevention of Dental Diseases
- Latin
- Historiography
- Immunology
- Pharmacology

2. SHORT SUMMARY OF THE SUBJECT

The course examines the theoretical bases for the development of hereditary pathology and genetic methods for the study of patients.

3. AIM AND OBJECTIVES OF THE SUBJECT

Aim of the Subject

The purpose of the course is to teach future doctors and dentists the basics of inherited disorders, etiology, pathogenesis, diagnosis, distinctive diagnosis, principles of treatment, prevention.

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:		
Know genetic mechanism, clinic, diagnosis and treatment of genetic diseases.		
Master use the knowledge gained during the diagnosis and prevention of certain dental genetic diseases.		
5. LITERATURE		
1. Ա. Ենգիբարյան, Դ. Մանուչարյան, Բժշկական կենսաբանության և գենետիկայի համալիր ձեռնարկ, Երևան, 2004;		
2. О. Гончаров, Генетика, Москва, 2005;		
3. B. Melegh, New Clinical Genetics, Banbury, 2015;		
4. D. Pritchard, B. Korf, Medical Genetics at a Glance, Hoboken, 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	PEDIATRIC DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	IV, V	SEMESTER	VIII - X
ACADEMIC YEAR	2018-2019		

MADE BY	Gohar Manashyan Gayane Grigoryan Narine Mirzoyan
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CHAIR	Stomatology
CLINICAL BASE	UTM SMTC, Stom Line dental Clinic
HEAD OF THE CHAIR	DMedSc, professor V. Kirakosyan

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
Pediatric Therapeutic Dentistry												
IV	VIII	2	17	2	60	34	8	26	17	9		+
V	IX	2	17	2	60	34	8	26	17	9		+
	X	2	17	2	60	34	6	28	17	9		+
Pediatric Surgical Dentistry												
IV	VIII	2	17	2	60	34	8	26	17	9		+
V	IX	2	17	2	60	34	8	26	17	9		+
	X	2	17	2	60	34	6	28	17	9		+
Total		12	102	12	360	204	44	160	102	54		

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

- Anatomy
- Biology
- Physiology
- Chemistry
- Prevention of Dental Diseases
- Latin
- Historiography
- Immunology
- Pharmacology

2. SHORT SUMMARY OF THE SUBJECT		
The course is examines the theoretical bases for the development of hereditary pathology and genetic methods for the study of patients.		
3. AIM AND OBJECTIVES OF THE SUBJECT		
Aim of the Subject		
The purpose of the course is to teach future doctors and dentists the basics of inherited disorders, etiology, pathogenesis, diagnosis, distinctive diagnosis, principles of treatment, prevention.		
4. EDUCATIONAL OUTCOMES: At the end of the course the student should:		
Know genetic mechanism, clinic, diagnosis and treatment of genetic diseases.		
Master use the knowledge gained during the diagnosis and prevention of certain dental genetic diseases.		
5. LITERATURE		
1. Ա. Ենգիբարյան, Դ. Մանուչարյան, Բժշկական կենսաբանության և գենետիկայի համալիր ձեռնարկ, Երևան, 2004;		
2. О. Гончаров, Генетика, Москва, 2005;		
3. B. Melegh, New Clinical Genetics, Banbury, 2015;		
4. D. Pritchard, B. Korf, Medical Genetics at a Glance, Hoboken, 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	ORTHODONTICS AND PEDIATRIC PROSTHODONTICS		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	IV, V	SEMESTER	VIII, IX
ACADEMIC YEAR	2018-2019		

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CHAIR	Stomatology
CLINICAL BASE	Children's stomatological polyclinic after Mnatsakanyan, UTM SMTc
HEAD OF THE CHAIR	DMedSc, professor V. Kirakosyan

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	3	60	51	12	39	7	2	+	
V	IX	2	17	2	60	34	6	28	17	9	+	
Total		4	34	5	120	85	18	67	24	11		

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

- Anatomy
- Biology
- Physiology
- Chemistry
- Prevention of Dental Diseases
- Childhood psychology
- Latin
- Historiography
- Immunology
- Biochemistry

2. SHORT SUMMARY OF THE SUBJECT

“Orthodontics and pediatric prosthodontics” course focuses on the basic provisions of orthodontics and the ways of multidisciplinary dental procedures.

3. AIM AND OBJECTIVES OF THE SUBJECT

Aim of the Subject

The aim of the course is to teach the classification, prevention, diagnosis, treatment of the maxillofacial anomalies in the process of preparation of the profession, peculiarities of child prosthesis and application technology.

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

the causes of the formation of denture anomalies, the classification, the principles of pediatric prosthetics, the method of dental prosthetic preparation, the congenital and acquired of skeletodental defects, forms and principles of their regulation with the help of orthodontic appliances, as well as denture and jaw prosthetics.

Master

the use of orthodontic appliances and their usage in the different ages, techniques for the treatment of malocclusion, and the principles of dispenser control.

5. LITERATURE

1. A. Bahreman, Early Age Orthodontic Treatment, Quintessence, 2013;
2. R. Nanda, Current Therapy in Orthodontics, Michigan, 2010;
3. S. Bishara, Textbook of Orthodontics, New York, 2006;
4. Л. Персин, Ортодонтия, Москва, 2004;
5. Н. Головки, Ортодонтические аппараты, Москва, 2002;
6. Р. Нанда, Биомеханика и эстетика в клинической ортодонтии, Москва, 2009;
7. У. Проффит, Современная ортодонтия, Москва, 2006.
8. Ф. Нетцель, К. Шульц, Практическое руководство по орт диагностике, Львов, 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	ORTHOPEDIC DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	III - V	SEMESTER	V - X
ACADEMIC YEAR	2018-2019		

MADE BY	DMedSc, professor V. Kirakosyan
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CHAIR	Stomatology
CLINICAL BASE	My City Dentist DC, UTM SMTC
HEAD OF THE CHAIR	DMedSc, professor V. Kirakosyan

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
Material Science												
III	V	3	17	3	90	51	18	33	26	13		+
Teeth Simple Prosthetics												
III	V	2	17	2	60	34	10	24	17	9		+
III	VI	2	17	2	60	34	10	24	17	9	+	
IV	VII	3	17	3	90	51	8	43	26	13		+
Prosthetics at Complete Edentulism												
IV	VII	4	17	4	120	68	10	58	34	18	+	
Teeth Hard Prosthetics												
IV	VIII	2	17	3	60	51	8	43	7	2		+
V	IX	2	17	3	60	51	8	43	5	4		+
	X	3	17	3	90	51	8	43	26	13	+	
Total		21	136	23	630	391	80	311	158	81		

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

- Human Anatomy
- Histology
- Normal Physiology
- Physics
- Chemistry
- Pathological Physiology
- Pathological Anatomy
- Propaedeutic of Prosthodontics

2. SHORT SUMMARY OF THE SUBJECT

Orthopaedic Dentistry studies

- **Material Science.** types of the dental materials, field of application and the demands towards them.

- **Teeth Simple Prosthetics.** Subject studies clinical and laboratory stages of inlays, onlays and overlays, also the types and clinical-laboratory stages of artificial crowns, post and cores, teeth preparations and fixed bridges.

- **Prosthetics at Complete Edentulism** Subject studies classification of full edentulous jaws, 5 appointments of clinical-laboratory stages of complete denture fabrication.

- **Teeth Hard Prosthetics.** Subject studies 5 appointments of clinical-laboratory stages of a Removable Partial Denture with casted metal framework. Classification of the TMJ diseases, clinical symptoms, diagnosis, dif. Diagnosis, prosthodontics treatment. Classification of Maxillofacial anomalies and their prosthodontics treatment.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Aim of the Subject

The aim of the subject is to introduce students fundamental and auxiliary dental materials, to teach clinical- laboratory stages of inlays, onlays and overlays, artificial crowns, post and cores, fixed bridges, complete dentures, removable Partial Dentures, types of teeth preparation.

3.2. Objectives of the Subject

To learn the main principles of working with materials

To Know the demands and field of application of materials

To learn clin-lab stages of inlays, onlays and overlays

To learn clin-lab stages, types and characteristics of artificial crowns and post and cores

To learn Tooth Preparation Principles

To learn clin-lab stages of Fixed Bridges

To learn clin-lab stages of Complete and Removable Partial Dentures

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

Know

Fundamental and Auxiliary dental materials, principles of utilization, diagnosis of prosthodontics diseases.

Be able

To make patterns, inlays, onlays and overlays, artificial crowns, post and cores, fixed bridges, complete dentures, removable Partial Dentures

Master

Types of fabrication of , inlays, onlays and overlays, artificial crowns, post and cores, fixed bridges, complete dentures, removable Partial Dentures

5. LITERATURE

1. Աբրահամյան Հ. Ա., Արհեստական լրիվ ատամնաշար հինգ բուժայցով: Օրթոպեդիկ ստոմատոլոգիայի դասախոսությունների շարք, Երևան, 2002,
2. Աբրահամյան Հ. Ա., Արհեստական մասնակի ատամնաշար հինգ բուժայցով: Օրթոպեդիկ ստոմատոլոգիայի դասախոսությունների շարք, Երևան, 2006,
3. Կիրակոսյան Վ. Պ., ՔՄՕՀ հիվանդությունները, դիմաճնտային օրթոպեդիա, կոտրվածքներ, բնածին և ձեռքբերովի արատներ, ստոմատոլոգիական պրոթեզավորումը բանակում, Երևան 1996,
4. Atlas of Human Anatomy,
5. Peter E. Dawson, Functional Occlusion, Canada, 2006,
Shillingburg, Herbert T., Jr.; Sather, David A., Fundamentals of Fixed Prosthodontics, Fourth Edition, Chicago, 2012.

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	PROPEDEUTICS OF ORTHOPEDIC DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	II	SEMESTER	IV
ACADEMIC YEAR	2018-2019		

MADE BY	DMedSc, professor V. Kirakosyan
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CHAIR	Stomatology
CLINICAL BASE	My City Dentist DC, UTM SMTC
HEAD OF THE CHAIR	DMedSc, professor V. Kirakosyan

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	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,*

- Human Anatomy,
- Maxillofacial anatomy;
- Historiography:
- Normal Physiology,
- Chemistry

2. SHORT SUMMARY OF THE SUBJECT

The propedeutics of orthopedic dentistry examines the types and features of the stamping, patterns and ganglion, the structure of the mesentery and the biomechanics.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Course Aim:

The aim of the training is to teach doctor-dentists the specialty of the organization of the dental stomatologic service, the instruments used in orthopedic dentistry, material science, the organization of the foundry work and assimilation process.

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

Know the methods of examining orthopedic dental diseases, all types of materials and molds used in orthopedic dentistry, tools used in orthopedic dentistry, and their use.

Master the skills of working with teeth for various types of artificial crowns, get stamps, diagnostic and working templates, use of different types of joints, hygienic rules of use of the joints.

5. LITERATURE

1. Kirakosyan V. P., COPD diseases, maxillofacial orthopedics, fractures, congenital and acquired defects, dental prosthesis in the army, Yerevan 1996,
2. Atlas of Human Anatomy,
3. Peter E. Dawson, Functional Occlusion, Canada, 2006,
4. Shillingburg, Herbert T., Jr .; Sather, David A., Fundamentals of Fixed Prosthodontics, Fourth Edition, Cicago, 2012

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	PREVENTION OF DENTAL DISEASES		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	II	SEMESTER	III, IV
ACADEMIC YEAR	2018-2019		

MADE BY	Gohar Manashyan
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CHAIR	Stomatology
CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	DMedSc, professor V. Kirakosyan

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	16	18	17	9		+
	IV	2	17	2	60	34	17	20	17	9		+
Total		4	34	4	120	68	33	38	34	18		

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

- Biology
- Physics
- Chemistry

2. SHORT SUMMARY OF THE SUBJECT

«Prevention of Dental Diseases» focuses on the main means of preventing dental diseases, methods and means of oral hygiene, hygienic indices, prevention of caries and periodontal diseases

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Course Aim:

The purpose of this course is to teach future dentist's the basics of dental disease prevention

3.2. Course objectives:

- Develop knowledge about prevention of dental diseases
- Understanding and determining hygienic indexes
- Oral hygiene education

4. EDUCATIONAL OUTCOMES: At the end of the course the student should:		
Know the purpose and the issues in the prevention of dental diseases, Be able to examine, detect and take necessary approaches in prevention the formation of dental diseases.		
5. LITERATURE		
1. J. Murray, J. Nunn, J. Steele, The Prevention of Oral Disease, New York, 2003.		
2. H. Limeback, Comprehensive Preventative Dentistry, New Jersey, 2013.		
3. Э. Кузьмина, Профилактика стоматологических заболеваний, Москва, 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

SUBJECT	THERAPEUTIC DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	III - V	SEMESTER	V-X
ACADEMIC YEAR	2018-2019		

MADE BY	Gohar Manashyan PhD Lusine Galstyan (external stakeholder)
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CHAIR	Stomatology
CLINICAL BASE	UTM SMTC, StomLine DC
HEAD OF THE CHAIR	DMedSc, professor V. Kirakosyan

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
Cariesology												
III	V	2	17	2	60	34	8	26	17	9		+
	VI	3	17	3	90	51	12	39	25	14		+
IV	VII	3	17	3	90	51	10	41	25	14	+	
Endodontics												
IV	VII	2	17	2	60	34	8	26	17	9		+
	VIII	2	17	3	60	51	12	39	7	2	+	
V	IX	2	17	2	60	34	8	26	17	9	+	
	X	3	17	3	90	51	12	39	25	14	+	
Parodontology												
V	IX	3	17	3	90	51	10	41	25	14		+
	X	2	17	3	60	51	10	41	6	3	+	
Oral Cavity Mucous Membrane diseases												
V	IX	2	17	2	60	34	8	26	17	9	+	
	X	2	17	2	60	34	8	26	17	9	+	
Total		26	187	28	780	476	106	370	198	106		

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

- Anatomy
- Biology
- Physics
- Chemistry
- Pathological Anatomy
- Pathological Physiology
- Histology
- Propedeutics of Therapeutic Dentistry
- Prevention of Dental Diseases

2. SHORT SUMMARY OF THE SUBJECT

The "Therapeutic Dentistry" course includes the following courses:

- The course of "**Cariesology**" examines the treatment principle of teeth aesthetic restoration in the treatment of dental tissue defects and also mistakes and complications during treatment, their prevention.
- The "**Endodontics**" course examines the prevalence of pulpitis and periodontitis, pathogenesis, etiology, clinic, modern diagnosis, selection of the right methods of treatment, and prevention.
- The "**Paradontology**" course examines the prevalence of parodontal diseases, pathology, etiology, clinic, contemporary diagnosis, selection of the right methods of treatment, and prevention.
- The "**Diseases of Oral Cavity Mucous Membrane**" course examines the classification of oral mucous membrane diseases, pathology, etiology, clinic, contemporary diagnosis and selection of the right methods of treatment.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. The Aim of the Course:

To prepare dentists who will be able to use modern methods of medical science and practice, provide outpatient dental care during basic dental diseases depending on individual and age anatomy-physiological features of the body.

3.2. Course objectives:

- Mastering of diagnostic methods for various stomatological diseases;
- Mastering of indications and contraindications for therapeutic treatment of various stomatological diseases,
- Formulation of practical skills of therapeutic treatment in ambulatory-polyclinic conditions during different stomatological diseases,
- Detection, elimination and prevention of complications in treatment of various stomatological diseases.

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

Know dental disease etiology, pathogenesis and classification of an etiologic risk factors, screening, diagnosis, prevention and therapeutic treatment methods, the treatment causes complications and their prevention, errors caused by the treatment, removal and prevention.

Be able to perform patient examination, diagnostic, laboratory and radiological research, treatment planning and method selection, complications detection, removal and taking preventive measures.

Master perform patient examination used in the therapeutic dentistry, the techniques of anesthesia, the technique of processing and shaping the carious cavities, the preparation of different filling materials, the diagnosis and the first medical aid in urgent situations

5. LITERATURE

1. Լ. Եսայան, Զ. Մկրտչյան, Ա. Ավետիսյան, Լ. Շամիրամյան, Թերապևտիկ ստոմատոլոգիա, Ուսումնական ձեռնարկ, Երևան, 2017
2. Լ. Կ. Եսայան, Ատամի կարծր հյուսվածքների կառուցվածքը: Ատամի կարիես, 2010
3. Մանկական թերապևտիկ ստոմատոլոգիա, Պարօդոնտալ հիվանդությունները մանկական հասակում, Ուսումնամեթոդական ձեռնարկ, Երևան, 2016
4. Վ. Տատինցյան, Թերապևտիկ ստոմատոլոգիա, Երևան, 1997թ.
5. ADA/PDR Guide to Dental Therapeutics, 4th Edition, Toronto, 2006
6. F. S. Weine, Endodontic Therapy, 6th Edition, Mosby, 2004
7. M. Goldberg, Understanding Dental Caries, Berlin, 2015
8. M. Torabinejad, R. Walton, Endodontics, Saunders, 2009
9. А. Николаев, Л. Цепов, «Практическая терапевтическая стоматология», 2016
10. Е. Боровский, «Терапевтическая стоматология», 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	PROPEDEUTICS OF THERAPEUTIC DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	II	SEMESTER	III, IV
ACADEMIC YEAR	2018-2019		

MADE BY	Gohar Manashyan PhD Lusine Galstyan (external stakeholder)
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CHAIR	Stomatology
CLINICAL BASE	UTM SMTC
HEAD OF THE CHAIR	DMedSc, professor V. Kirakosyan

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	16	35	26	13		+
	IV	2	17	2	60	34	12	22	17	9		+
Total		5	34	5	150	85	28	77	43	22		

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

- Anatomy
- Biology
- Physics
- Chemistry

2. SHORT SUMMARY OF THE SUBJECT

Propedeutics of Therapeutic Dentistry courses study all dental fields, their goals and objectives, dental stomatology, classification of instruments, disinfection methods, therapeutic stomatology, oral cavity structure, anatomy and histology of organs, saliva, its structure and role, dental registration formulas, filling materials.

3. AIM AND OBJECTIVES OF THE SUBJECT

The aim of the course is to teach the dental organization and furnishing of the dental office, dental instruments, basic and additional methods of patient examination, symptoms of dental diseases, complaints of patients, subjective and objective exams, diagnosis, methods of cavity preparation and root canals.

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

Know dental office's organization and furnishing, dental therapeutic tools (diagnostic, endodontic), basic and additional methods of patient examination, subjective and objective examinations of dental diseases, carious and non-carious disorders, their clinic diagnosis.

Be able to make medical records, make a preliminary examination of the patient, collect the anamnesis, write dental formulas, complete a medical card, explore and detect oral defects, prepare fillers for stamping.

5. LITERATURE

1. Harutyunyan A., Therapeutic Stomatology, Yerevan 2009
2. V. Tatentsyan, Therapeutic Stomatology, Yerevan, 1997;
3. ADA/PDR Guide to Dental Therapeutics, 4th Edition, Toronto, 2006;
4. E. Borovski, « Therapeutic Stomatology,», 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	SURGICAL DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	III - V	SEMESTER	V - X
ACADEMIC YEAR	2018-2019		

MADE BY	Gayane Grigoryan Berge Atam
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CHAIR	Stomatology
CLINICAL BASE	UTM SMTC, Stom Line DC, My City Dentist DC
HEAD OF THE CHAIR	DMedSc, professor V. Kirakosyan

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
Local anesthesia and anesthesiology in dentistry												
III	V	2	17	2	60	34	12	22	17	9		+
Oral cavity surgery												
III	VI	2	17	3	60	51	18	33	7	2		+
IV	VII	4	17	4	120	68	18	50	34	18		+
	VIII	2	17	3	60	51	8	43	7	2	+	
V	IX	2	17	3	60	51	12	39	6	3	+	
Implantology and oral cavity restorative surgery												
V	IX	2	17	2	60	34	12	22	17	9		+
	X	2	17	2	60	34	12	22	17	9		+
Total		16	119	19	480	232	92	231	105	52		

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

- Human Anatomy,
- Histology,
- Normal Physiology,
- Physics,
- Chemistry,
- Pathological Physiology
- Pathological Anatomy
- Pharmacology
- Propedeutics of Surgical Dentistry

2. SHORT SUMMARY OF THE SUBJECT

The subject of "Surgical Dentistry" includes the following sections:

- **Local anesthesia.** The course examines anesthetic materials, local anesthetic methods, and methods of their implementation.
- **Oral cavity surgery.** The course examines etiology, pathogenesis, clinic, treatment of oral cavity.
- **Implantology and oral cavity restructuring surgery.** The course focuses on the principles of implantology, techniques for rebuilding and plastic surgery.

3. AIM AND OBJECTIVES OF THE SUBJECT

3.1. Course Aim:

Prepare doctor stomatologists who will be able to provide outpatient surgical dental care.

3.2. Course Objectives:

- Development of local anesthetics;
- Development of dental removal instructions, contraindications techniques,
- Methods of diagnostics, treatment of surgical diseases,
- Detection, elimination and prevention of complications of surgical diseases.

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

Know local anesthesia techniques, tooth removal technique, etiology of surgical diseases, pathogenesis, clinic, treatment methods, oral cavity plastic, techniques of reconstructive surgery, basics of implantology.

Be able to perform local anesthesia, tooth removal, perform surgical dental surgery, diagnosis, treatment planning, complications prevention and elimination, plastic and reconstructive surgery

Master all methods of local anesthesia of the administrator, diagnostic techniques, diagnostics and treatment of surgical diseases:

5. LITERATURE

1. Խ. Բադալյան, Յ. Պողոսյան, Վիրաբուժական ստոմատոլոգիա, Երևան, 1996;
2. Վիրաբուժական ստոմատոլոգիա և դիչնաձնոտային վիրաբուժություն, խմբ. պրոֆ. Գ. հակոբյան, Երևան, 2018
3. Т. Робустова, Хирургическая стоматология, Москва, 1996;
4. Т. Робустова, Имплантация зубов, Москва, 2003;
5. G. Byrne, Fundamentals of Implant Dentistry, Dublin, 2014;
6. N. Malik, Textbook of Oral and Maxillofacial Surgery, London, 2012;
7. Sturdevant's Art and Science of Operative Dentistry, Elsevier, 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	PROPEDEUTICS OF SURGICAL DENTISTRY		
COURSE TYPE	Compulsory		
DEGREE	Continuous and Integrated Educational Program		
FORM OF EDUCATION	Full-time		
SPECIALTY, DEPARTMENT	Dentistry		
YEAR	III	SEMESTER	V
ACADEMIC YEAR	2018-2019		

MADE BY	Gayane Grigoryan Berge Atam
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CHAIR	Stomatology
CLINICAL BASE	UTM SMTC
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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	V	2	17	2	60	34	14	20	17	9		+
Total		2	17	2	60	34	14	20	17	9		

<p>1. INTRODUCTION. <i>In order to master the course,</i></p> <ul style="list-style-type: none"> – Human Anatomy, – Normal Physiology
<p>2. SHORT SUMMARY OF THE SUBJECT</p> <p>The propedeutics of surgical dentistry examines the anatomy of the maxillofacial region, the organization of surgical dental service, the methods for examining the patients, the addition of the documentation and surgical instrument.</p>
<p>3. AIM AND OBJECTIVES OF THE SUBJECT</p> <p>3.1. The Aim of the Subject:</p> <p>The purpose of the course is to teach students the principles of aseptic, antiseptic, patient examination methods and to introduce surgical instruments.</p> <p>3.2. Objectives of the Subject:</p> <ul style="list-style-type: none"> – Development of surgical methods of examination of patients; – Adding documents; – Knowledge of tools to use:
<p>4. EDUCATIONAL OUTCOMES: At the end of the course the student should:</p> <p>Know maxillofacial anatomy, the basics of aseptic and antiseptic, patient examination, and filling rules.</p> <p>Be Able to do the patient research, complete the relevant documentation, and use surgical instruments.</p>

5. LITERATURE		
1. Ավետիսյան Է., Վիրաբուժական ստոմատոլոգիայի պրոպեդեուտիկա, Երևան, 2011;		
2. Ю. Соловьев, Пропедевтика хирургической стоматологии, Москва, 2007;		
3. N. Malik, Textbook of Oral and Maxillofacial Surgery, London, 2012.		
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+
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