

## Appendix 5

### ANNOTATIONS OF OPTIONAL COURSE PROGRAMS for the 2018-2019 academic year in the specialty 560003 "Preventive medicine"

3 years 6 semester

Each student is required to gain 4.0 credits (ECTS) during

№	Department	Name	Loans	Annotations
1	General and Clinical Biochemistry	The role of vitamin-like substances, macro and microelements in metabolism Department of Biochemistry with a course in general and bioorganic chemistry	1,0	The purpose of the CPV is: to form an idea of the functioning of vitamin-like substances in the body; to get an idea of the complex metabolic disorders in the development of pathological conditions caused by a lack of vitamin-like substances; to form an idea about the role of macro- and microelements in the human body

2	<b>Dermatovenereology</b>	Dermatovenereology	1,0	The topic of this course is very relevant for future doctors of the Preventive medicine, since the diseases included in the elective curriculum constitute an epidemiological danger for the population. When studying these diseases, students learn the methods and methods of examining patients in order to establish the correct clinical diagnosis and organize further preventive measures. In the process of training, students will listen to lectures on the following topics: skin tuberculosis, dermatomyositis, neurosyphilis, skin manifestations of AIDS; they will study in practical classes such diseases as: leprosy, parapsoriasis, and also deal with the topics of ISW: ichthyosis, occupational skin diseases, vitiligo, cheilitis, trepanematosi
3	Faculty Pediatrics	Sick child and caring him	1,0	An elective course includes nutritional issues for the child

				early age, supportive care, assistance with pain and hyperthermic syndromes during illness, familiarization with the rules of blood transfusion and blood components, correct manipulation, which is important for providing quality medical care to a child both in a hospital and at home, and what affects on the process of a speedy recovery. The acquired knowledge and skills are necessary for every doctor in daily practice, regardless of his specialization. the material is given in an accessible form, and at the same time practical skills are practiced
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4	Hospital surgery with a course of operative surgery	Surgical pathology of the venous system	1,0	Training on an elective course will allow you to acquire a broader and deeper knowledge, get acquainted with the latest technologies and methods for the diagnosis and treatment of diseases of the veins of the lower extremities, developed over the past 10 years. The objectives of training on an elective course are: the formation of clinical thinking, in the study of the pathology of the veins of the lower extremities; deepening and expanding professional knowledge and skills in the diagnosis and treatment of patients with pathology of the veins of the lower extremities; developing a stereotype of actions (diagnostic, therapeutic, prophylactic) in clinical situations for the provision of practical medical care for various diseases of the veins of the lower extremities; mastering the necessary practical skills and manipulations.
5	Pathological anatomy	Pathological anatomy Internal disease	1,0	The purpose of the course in the pathological anatomy of internal diseases is to study the structural foundations of these diseases, their etiology, pathogenesis and morphogenesis for the use of the knowledge gained in training at clinical departments for the preparation of a doctor of preventive medicine. The objectives of the course are to study the etiology, pathogenesis and morphology of diseases of the heart, lungs, gastrointestinal tract, liver and kidneys at different stages of their development (morphogenesis), complications,

				<p>outcomes and individual consequences of diseases.</p> <p>An important point in teaching is the comparison of the morphological and clinical manifestations of diseases at all stages of their development, which will instill in students the skills of clinical and anatomical analysis, synthetic generalization of diagnostic signs of diseases and their correct interpretation in causal relationships.</p>
6	Pathological physiology	Pathophysiology of drug addiction and substance abuse	1,0	<p>In the modern world, drug addiction has long ceased to be an object of only professional interest on the part of clinicians and experimental pathologists. Entering the 21st century, mankind finally realized that in addition to ecology in general, there is also human ecology, the safety of which will be ensured if effective means of combating the "diseases of civilization" are found, among which drug addiction is one of the most important places. However, such widespread public attention to this problem also gives rise to significant confusion in the use of the terms "drug", "narcotic substance", "drug addiction", "substance abuse", etc. Therefore, before proceeding with the presentation of the main material on the pathology of drug addiction, one should understand the terminology and separate the medical, social and legal spheres of its application.</p>

7	Obstetrics and Gynecology	Perinatal aspects obstetrics and gynecology		This course, based on knowledge about typical pathological processes and the role of risk factors in gynecological pathology, studies disorders in the reproductive system of the female body in different periods of ontogenesis. The issues of etiology, pathogenesis, clinic, diagnosis, treatment and prevention of the most common gynecological diseases are considered.
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**ANNOTATIONS OF OPTIONAL COURSE PROGRAMS  
for the 2018-2019 academic year**

**in the specialty 560003 "Preventive medicine"**

**4 course 7 semester**

**Each student must earn 5.0 credits (ECTS) during the  
semester**

<b>№</b>	<b>Department</b>	<b>Name</b>	<b>Loans</b>	<b>Annotations</b>
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1	Clinical Rehabilitation and Physiotherapy	Traditional medicine	1,0	The elective course program is intended for the initial study of reflexology, which is used along with other medicinal and non-medicinal methods of treatment. It describes the main methods of treatment and the theoretical foundations of oriental medicine.
2	Pediatric dentistry	Modern aspects of the prevention of dental diseases in children	1,0	The main objective of the elective course is the formation of the MTD students, knowledge and skills in the prevention of dental diseases in children, improving the quality of knowledge and skills in mastering the specialty. Prevention of dental diseases is the prevention of the onset and development of diseases of the oral cavity. The introduction of prevention programs leads to a sharp decrease in the intensity of dental caries and periodontal disease, a significant decrease in cases of tooth loss at a young age and an increase in the number of children and adolescents with intact teeth.
3	Otorhinolaryngology	Emergencies in otorhinolaryngology	1,0	The elective course provides for the study of theoretical as well as practical skills and abilities to diagnose and provide timely, urgent assistance to patients with such urgent conditions in otorhinolaryngology as: injuries, foreign bodies of ENT organs, nosebleeds, stenoses of the larynx of various origins, chemical burns of the pharynx and esophagus, paratonsillar abscesses and other abscesse

				<p>etiology, etc., highlighting the characteristic symptoms and determining the level of topical lesion. During the elective course, students will use the basic techniques and methods of providing emergency care for otorhinolaryngological patients, work with dummies (conducting anterior and posterior nasal tamponade, tracheotomy technique, etc.) etc.), visual aids, with the attachment of the results of additional examinations.</p>
4	Ophthalmology	Emergency assistance with prof eye injuries		<p>When conducting practical classes, much attention is paid to the development of practical skills in ophthalmology by students, which are necessary in their future work. The topic of students' independent work (IWS) - includes those issues of theoretical and clinical ophthalmology that can be mastered by the students themselves, without the help of a teacher</p>
5	Biochemistry with a course in general and bioorganic chemistry	Biochemical changes in violation of the function of the gastrointestinal tract and liver		<p>The goal is to expand and systematize knowledge about the pathobiochemistry of the stomach, pancreas, intestines, liver and methods of their research. Students will study the features of the digestion process in pathological conditions of the gastrointestinal tract, biochemical markers of diseases of the liver, pancreas, stomach and intestines. and will also master the principles of carrying out methods of biochemical analyzes in diseases of the gastrointestinal tract and the</p>

				main more sensitive biochemical tests of diseases of the gastrointestinal tract. this knowledge is important for the activity of the future specialist of the IVD doctor
6	Biochemistry with a course in general and bioorganic chemistry	Free radicals and antioxidants. The fight between good and evil		The main purpose of this course is to form an understanding of free radicals and antioxidants, the role of free radical processes in the life of the body, as well as their biochemical aspects of action. This elective course will allow the student to understand the essence of the processes of free radical oxidation in health and disease and to open the "door" to the world of antioxidants, which is important for the activities of a future specialist

**ANNOTATIONS OF OPTIONAL COURSE PROGRAMS  
for the 2018-2019 academic year**

**in the specialty 560003 "Preventive medicine"**

**4 course 8 semester**

**Each student is required to gain 6.0 credits (ECTS) during  
the semester**



<b>№</b>	<b>Department</b>	<b>Name</b>	<b>Loans</b>	<b>Annotations</b>
1	Urology and Andrology	Survey methods  andrological patient	1,0	<p>Andrology covers all diseases of the genital organs in men at any age. These include congenital and genetically determined developmental abnormalities. A significant place is occupied by inflammatory diseases of male genitalia, which are widespread among young and middle-aged people who are the most able-bodied and active in public life. The purpose of the course is to familiarize students with modern methods of diagnosing diseases of the male genital organs, to teach practical skills in the examination of andrological patients, differential diagnosis and patient management tactics.</p>
2	Oncology	Oncology	1,0	<p>. The problem of timely detection and treatment of malignant neoplasms is one of the most difficult and urgent problems in modern medical science. The goal of student education is to provide students with a broader and in-depth understanding of oncology.</p> <p>Objectives: to explain the organization of screening for the timely detection of malignant neoplasms; to teach students the prevention of complications of chemotherapy and radiation therapy; teach the basics of organizing palliative care and rehabilitation of cancer patients; to teach the basic methods of diagnosis and treatment of malignant tumors of</p>

				rare localizations.
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3	Neurology with a course in medical genetics	Neurological complications with somatic diseases	1,0	The list of knowledge presented in the program will contribute to the consolidation of knowledge of the main sections of topical diagnosis of nervous diseases, which are necessary for future doctors, a better orientation in matters of organizational assistance and medical tactics for patients with discovered disorders of the nervous and other systems. An important role is played by CPS at the patient's bedside, in functional rooms, intensive observation wards, as well as extracurricular self-training of students, will help in the future to timely prescribe an examination plan and adequate therapy measures
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4	Radiation diagnostics and therapy	The use of ionizing radiation in medicine and its effect on the body	1,0	The elective course will allow you to study in more depth the properties of ionizing radiation (IR), the field of application of X-ray and radionuclide studies in various fields of medicine. The features of obtaining an image with various research methods and methods of their analysis are also considered. In addition to diagnostic measures using AI, the basics of radiation therapy are touched upon. Students are given the opportunity to get acquainted in more detail with both the general physical and biological interactions of various types of AI on individual structures and on the organism as a whole, including long-term consequences. The elective course focuses on radiation safety of the population and personnel, radiation monitoring, rules for the location of appropriate equipment, disposal of radiation products, first aid for radiation injury and their prevention, as well as rehabilitation after radiation exposure..
5	Traumatology and Orthopedics	Providing the first honey. help with occupational injuries	1,0	The main goal of the course is to teach students a set of medical knowledge and skills in terms of injury prevention and first aid necessary for their

				future professional activities.
6	Internal medicine propedeutics	Diabetes mellitus and iodine deficiency diseases	1,0	The growth of patients with diabetes mellitus and their complications are growing among the population of Kyrgyzstan and are one of the causes of mortality among the population. Timely recognition of basic clinical and laboratory-instrumental signs of diabetes mellitus and iodine deficiency diseases is important. Taking into account that at present patients go to doctors with already developed complications, the main emphasis in the program is made on the modern assessment of glycemic levels, as well as practical skills.
7	General and Clinical Epidemiology	Fundamentals of infection control in healthcare organizations	1,0	Infections associated with the provision of medical care are an urgent problem for practical health care, reducing the quality of medical care and increasing the social time of illness. A large proportion of nosocomial infections is associated with the carrying out of injected diagnostic and therapeutic procedures. Future health care practitioners should be well aware of the fundamentals of health care-related infection prevention.

**ANNOTATIONS OF OPTIONAL COURSE PROGRAMS**

**for the 2018-2019 academic year**

**in the specialty 560003 "Preventive medicine"**

**5 course 9 semester**

**Each student is obliged to gain 3.0 credits (ECTS) during the semester**

<b>№</b>	<b>Department</b>	<b>Name</b>	<b>Loans</b>	<b>Annoation</b>
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1	Hospital therapy, occupational pathology with a course of hematology	Alpine medicine	1,0	The aim of teaching an elective course is to study by students the peculiarities of the mountain climate, specific mountain diseases and the course of certain diseases of the lungs and cardiovascular system in high altitude conditions. The objective of the elective course is to teach students specific mountain diseases and the course of certain diseases of the lungs and cardiovascular system in high altitude conditions. , as well as the use of alpine climatotherapy for certain diseases.
2	Pediatric infectious diseases	HIV and the child	1,0	<p>The last decade has seen a significant increase in the number of HIV-infected women of childbearing age. This trend has led to an increase in the number of children born to HIV-infected women. During this course, you will receive basic information about HIV</p> <p>infection, how it proceeds in children, and what primary care providers should know about HIV infection management in children. This student's choice course includes issues of HIV infection and children's health, when you need to test a child for HIV infection, how to discuss issues with your child</p> <p>HIV and many other useful information</p>
3	General and Clinical Epidemiology	Contemporary problems immunoprophylaxis	1,0	Immunization of the population plays an important role in the prevention of infectious diseases, which is indisputably proven by its results. During the period of formation and

				development immunoprophylaxis, new technologies for obtaining vaccines have been developed, schemes and methods of administration have been improved. Knowledge of the basics of the organization of vaccinations and new directions in the development and production of immunobiological drugs is necessary for future public health professionals
4	Clinical Rehabilitation and Physiotherapy	Fundamentals of Sports Medicine	1,0	The program "Fundamentals of Sports Medicine" for MPD students is intended for the initial study of the basics of sports medicine, which is part of the therapeutic and prophylactic direction of the health care system. The program contains objectives and content, research methods and methods of providing assistance to people involved in sports.

5	Infectious diseases	Topical issues of hepatology	1,0	The elective course provides students with the necessary information to deepen and systematize knowledge on topical issues of chronic viral hepatitis, which have not found a proper presentation in the main course of teaching the subject at the faculty of "MPD". This is determined by both the high prevalence and severe consequences of chronic viral hepatitis. The elective provides for the development of practical skills among students, ensuring the diagnosis of chronic viral hepatitis, the skills of correct interpretation of the results of laboratory and instrumental examination of patients, introduces the principles of antiviral therapy. The elective also includes consideration of the main regulatory documents of the Ministry of Health of the Kyrgyz Republic on the prevention of viral hepatitis.
6	Infectious diseases	Current issues of HIV infection	1,0	The elective course provides additional knowledge for students to deepen and systematize knowledge on testing and counseling for HIV infection, which has not been adequately covered in the main course of teaching the subject. The elective provides for the formation of knowledge in the tactics of psychosocial counseling, the development of practical skills in matters of pre-test and post-test counseling of persons tested for HIV. The elective course also covers diagnostic issues, incl. express diagnostics, measures for identifying HIV-infected, adherence of patients to antiretroviral therapy (ARVT),



				issues of pre-hypo-exposure prophylaxis, palliative care for HIV-infected.
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## **ANNOTATIONS OF OPTIONAL COURSE PROGRAMS**

**for the 2018-2019 academic year in the specialty 560003 "Preventive medicine"**

**5 course 10 semester**

**Each student is required to gain 7.0 credits (ECTS) during the semester**

<b>№</b>	<b>Department</b>	<b>Name</b>	<b>Loans</b>	<b>Annotations</b>
1	Hospital therapy, occupational pathology with a course of hematology	Occupational diseases caused by exposure to chemicals	1,0	This elective course provides an opportunity to study the main occupational diseases caused by exposure to chemicals, to master the basics of diagnostics, methods of treatment, prevention and examination of working capacity. The elective course is intended for medical students
2	Public health and health care	Healthcare Marketing	1,0	Healthcare marketing is a social and managerial process aimed at meeting the needs and requirements of the population in health care through the creation, supply and exchange of valuable medical and pharmaceutical services and goods on the market.  Medical services provided to patients in various institutions have become an integral part of market

				relations, which led to the emergence and development of marketing in health care.
3	Hospital therapy, occupational pathology with a course of hematolog	Obstructive sleep apnea syndrome	1,0	<p>The aim of teaching the elective course "Obstructive Sleep Apnea Syndrome" is to master the etiopathogenesis, clinical picture and the main points of diagnosis and treatment of patients with obstructive sleep apnea syndrome by students.</p> <p>The objective of the elective course is to teach students: definition, epidemiology of OSAS; mechanisms of OSAS occurrence; types of somnological research; teach to conduct differential diagnostics of OSAS; master the basic principles of treatment and prevention of OSAS, and also teach the issues of forecasting, determining the ability to work.</p>

4	Phthisiology	Stigma and discrimination: adherence to TB treatment	1,0	This training course examines the issues of problem solving in increasing the success of treatment of patients with tuberculosis. The main block of information did not include topics for this section of the elective course. The success of treatment largely depends on the relationship between honey. workers and the patient, in a trusting relationship, the patient can express their concerns, needs, desires and will try to fully follow the recommended course of treatment.
5	Biochemistry with a course in general and bioorganic chemistry	Biochemical aspects of carcinogenesis	1,0	The purpose of the elective course is to expand and systematize students' knowledge of the biochemical foundations of carcinogenesis and its consequences. The program includes the following sections: sources and ways of spreading carcinogenic factors in everyday life; factors contributing to carcinogenesis; critical stages in the development of carcinogenesis; characteristics and markers of carcinogenesis.

6	Dermatovenereology	Fundamentals of dermatocosmetology	1,0	<p>The elective course takes place at the clinical bases of the KSMA. “Diva effect” and “Profus”. The equipment of the bases allows you to disassemble in practice and personally participate in various cosmetic procedures. Students will be able to observe and study various hardware and injection methods for correcting and treating skin imperfections.</p> <p>The elective course program included topics: aging of the skin and the body, correction and prevention of various morpho-functional skin imperfections, prevention of premature aging of the body, early detection of diseases, the main laser technologies used in dermatology, dermatocosmetology, cosmetic care for various types of skin.</p>
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7	Medical psychology, psychiatry and narcology	Providing psychological assistance to victims of emergencies	1,0	<p>The elective course is designed taking into account the need to familiarize and provide emergency first psychological aid to the population during various kinds of emergencies. Within the framework of this course, a system of short-term events is considered aimed at regulating the current psychological, psychophysiological state and negative emotional experiences of a person or a group of people who have suffered as a result of a crisis or emergency event using professional methods that meet the requirements of the situation.</p> <p>The work on this course is to familiarize students with the conceptual and categorical scientific apparatus, the ability to provide emergency psychological assistance in the first moments, after and during an emergency traumatic event.</p>
8	Forensic medicine	jurisprudence	1,0	<p>The Department of Forensic Medicine and Jurisprudence brings to your attention that in the elective courses in the process of study, a highly professional, stable, optimally balanced cadre is formed, which most fully corresponds to modern and predictable socio-political, economic, criminogenic and other conditions, capable of effectively solving tasks set by society and the state. The course "Jurisprudence" combines several branches of law, which allows the future doctor to receive a set of legal knowledge in the main spheres of public life and the field of medical activity.</p>

9	Pediatric infectious diseases	Problems of diagnostics of acute infectious diseases in children at the present stage	1,0	Will present modern problems of diagnosis and prevention of childhood infectious diseases, as one of the global problems of our time. The problems of diagnosis and management of sick children with chickenpox will be considered. Smallpox, against the background of the use of corticosteroids or cytostatics in the treatment. the peculiarities of diagnostics of whooping cough at the present stage in different age groups will also be presented. It is supposed to consider the issue of diagnosing the extrabuccal form of scarlet fever, especially its course in children. The problems of diagnosis and management of such diseases as oropharyngeal diphtheria in vaccinated children, parvovirus B-19 infection in children, and a lot of other useful information that will help in improving the qualifications and competence of pediatricians in the problem of childhood infection will not be ignored.
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10	General surgery with a course of combustiology	Emergency relief for burns	1,0	The content of the elective course covers: the provision of qualified medical care for burns at the prehospital (first aid, the introduction of burns in the clinic) and hospital stages; assessment of transportability and sorting of burnt; theoretical foundations of burn disease (pathology, clinical picture, treatment, complications of burn disease); methods of treating burn wounds (local, conservative, surgical); the introduction of those burned during the rehabilitation period; disability of the burned and ways to reduce them.



11	Family medicine	Gerontology in the work of GP	1,0	<p>The priority is the issues of providing medical and social assistance to persons of older age groups. This is due to the fact that the last decades of our century are characterized by a steady increase in the elderly and senile population, both in Kyrgyzstan and in many countries of the world. This has already required organizational forms of medical care - the creation of outpatient and inpatient geriatric centers, departments and hospitals for medical care, the deployment of a network of hospitals at home.</p> <p>New medical professionals should be able to cooperate not only with the old person, but also with social services, representatives of organizations and services in order to ensure not just the biological existence of older people, but to make the last stage of their life worthy for a person</p>

12	Infectious diseases	Tropical diseases	1,0	<p>The relevance of studying the problem of tropical infections is due to the high level of morbidity in the world, high migration of the population, severe course with possible complications and death. Elective covers the fundamental issues of the most common tropical diseases (etiology, epidemiology, pathogenesis, clinical picture and treatment). Materials on the problem of protozoal diseases, arbovirus tropical diseases and helminthiasis, which have not found a proper presentation in the main course of teaching the subject, are systematized and generalized, taking into account further education and professional activity in the specialty".</p>
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