**Student elective courses (CPC) for the academic year 2020-2021**

Specialty: "General Medicine" 2 course

Each student is required to gain 2 credits (ECTS) during the year

List and annotations of elective courses at the choice of students

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| **№** | **CPV Name** | **Loans** | **Annotations** |
| 1 | Nanotechnology in Medicine (Department of Physics, Mathematics, Informatics and IT) | 1 | The course program includes such issues as new and latest methods of prevention, diagnosis and treatment of patients' diseases, which include nano technologies, laser therapy, radiation diagnostics, etc. In addition, as part of the course, students will get acquainted with the main medical devices and devices, their classification, study issues related to ionizing radiation and their dosimetry in medicine. |
| 2 | Tropical Parasitology (Department of Medical Biology, Genetics and Parasitology) | 1 | The purpose of the course is to expand students' knowledge of morphology, the characteristics of development cycles, the spread of parasites of a tropical climate, their pathogenic action, and measures to protect human health from parasites. Large migration of the population to different parts of the world, the arrival of foreign students from various countries, the presence of transit hosts of parasites and vectors suggest an expansion of the range of parasites and the need for additional knowledge of tropical parasitology. |
| 3 | Modern problems of regeneration (department of histology, cytology and embryology) | 1 | The elective course "Modern Problems of Regeneration" is designed for 2nd year students of the Faculty of Medicine and is devoted to the study of the structural foundations of the regeneration processes occurring in the body, and the mechanisms of their regulation, which are addressed to solving medical problems. In clinical practice, it is often necessary to influence the regeneration processes of various tissues and organs. The impact on these processes requires a careful approach and a deep understanding of the basic laws of the regeneration process. In recent years, in connection with the advances in molecular biology, ideas about the mechanisms of regulation of reparative processes have changed significantly. In the light of this knowledge about the structural foundations of regeneration become an essential element of medical education and the elective course is designed to provide this knowledge. |
| 4 | Participation of the autonomic nervous system in the regulation of the functional systems of the body (Department of Fundamental and Clinical Physiology) | 1 | The subject of the elective course is devoted to the key problem of physiology - the study of the mechanisms of autonomic regulation of various body systems.  For the first time, students will get acquainted with the characteristics and methods of assessing the functional state of the autonomic nervous system.  In practical classes, to assess the state of the ANS, students will conduct various tests (clinortostatic and Martine's test), calculate the Kerdo index, induce Danini-Aschner reflexes, carotid Chermak-Hering reflexes. |
| 5 | The role of biogenic elements in the human body (department of biochemistry with a course in general and bioorganic chemistry) | 1 | Formation in students of a system of natural science knowledge about the chemical and biological properties of biogenic elements, the presence and transformation of which constitute the molecular basis of the body's life. |
| 6 | Pathophysiology of Adaptation Syndrome and Stress (Department of Pathological Physiology) | 1 | This course will study the most nonspecific general mobilization response of the body to any stimulus that threatens homeostasis in reality, potentially, or even simply unexpected.  The causes of the adaptation syndrome and stress, as well as the anti-stress mechanisms of the body, and the principles of stress correction will be discussed in detail. |
| 7 | A culture of speech  (Department of Kyrgyz language) | 1 | Teaching the Kyrgyz language is aimed at forming a culture of speech, logical speech, enriching vocabulary, grammatical literacy, teaching the correct writing of documents, deepening knowledge in the specialty. |

**Student elective courses (CPC) for the academic year 2020-2021**

Specialty: "General Medicine" 3 course

Each student is required to gain 6 credits (ECTS) during the year

List and annotations of elective courses at the choice of students

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| **№** | **CPV Name** | **Loans** | **Annotations** |
| 1 | Mechanisms of human adaptation to environmental conditions  (Department of Fundamental and Clinical Physiology) | 1 | As part of the elective course, the mechanisms of human adaptation to various environmental conditions, namely to the factors of high mountains, physical activity, and temperature shifts, are considered. Taking into account that 90% of the territory of Kyrgyzstan is occupied by mountains, considerable attention is paid to the study of the influence on the organism of the factors of high mountains. |
| 2 | Pituitary dysfunction syndrome.  (Department of Internal Medicine Propedeutics) | 1 | Recently, more and more often there are patients with pituitary dysfunction syndrome, with slowly developing clinical manifestations, which are often perceived by the doctor as "age-related" changes or separate symptoms of somatic diseases. At the same time, untimely recognition of this pathology leads to damage to target organs and formidable complications. Taking into account the above, this program of an elective course for future doctors has been developed in order to develop competencies in the diagnosis of basic clinical and laboratory-instrumental signs of "pituitary dysfunction syndrome". |
| 3 | Hemodynamic parameters and physiological mechanisms of regulation of regional blood circulation - coronary, pulmonary, cerebral, renal, portal  (Department of Fundamental and Clinical Physiology) | 1 | The elective course provides an in-depth study of the features of regional blood circulation. For the first time, students will be familiar not only with the general morphological and functional patterns of blood supply to various organs, but also with the regional features of blood flow and vascular tone.  The knowledge gained will contribute to a deep assimilation of the development of pathological processes of regional blood circulation, which is important for the future activities of a doctor. |
| 4 | The role of antioxidants in metabolic disorders in the human body (Department of Biochemistry with a course of general and bioorganic chemistry) | 1 | This elective course will allow the student to understand the essence of free radical oxidation processes in health and disease and to open the "door" to the world of antioxidants, which is important for the activities of a future general practitioner, since all basic physiological processes in the human body normally and in pathology occur with involving free radicals. |
| 5 | Rare hemispheric syndromes  (Department of Neurology and Clinical Genetics) | 1 | In the CPV "Rare hemispheric syndromes" is designed to study those symptoms and syndromes of damage to various parts of the cerebral hemispheres of the brain that are not included in the main program of the subject "Neurology" included in the module "Nervous system". This is the recognition of the syndromes of irritation and prolapse of the cerebral cortex, the clinical significance of the asymmetry of the cerebral hemispheres in neurology. The issues of clinical research of higher brain functions are also studied in detail. |
| 6 | Medical geography  (department OZZ) | 1 | Study of the influence of natural, economic and social conditions of various territories on the health of the population. |
| 7 | Clinical microbiological diagnosis of infections associated with the provision of medical care HAI (Department of Microbiology, Virology and Embryology) | 1 | The program is aimed at studying the types of microbes, transmission routes, factors contributing to the spread of nosocomial infections (nosocomial infections). The microbiological significance of microorganisms in the objects of the hospital environment (in water, air, food) in the development of nosocomial infections.  As a result of the training, students will master the rules for the collection, storage and transportation of clinical material in nosocomial infections of various localization. |
| 8 | Fundamentals of Infection Control (Department of General and Clinical Epidemiology) | 1 | Infections associated with the provision of health care are an urgent problem for practical health care, reducing the quality of health care and increasing the social burden of disease. At the same time, a large proportion of nosocomial infections are associated with invasive diagnostic and therapeutic procedures.  Future health care practitioners should know the basic measures for the prevention of infections associated with the provision of health care. |
| 9 | Features of caring for preschool children with a view to their development (department of propedeutics of childhood diseases) | 1 | Purpose of the lesson: to teach students the basic elements of education for preschool children. Students must master the methods used to develop memory, speech, thinking, attention. Mastering practical skills in preschool institutions - to apply the methods of education in children, in the form of games, crosswords, maps, drawings and tests. |
| 10 | Sexual differentiation disorder. Hermaphroditism (Department of Urology) | 1 | The purpose of the elective course: the formation of students' knowledge about diseases of the male reproductive system about the violation of sexual differentiation, the causes of male infertility, factors contributing to the development of erectile dysfunction, as well as about modern methods of diagnosis and treatment in andrology. |

**Student elective courses (CPC) for the academic year 2020-2021**

Specialty: "General Medicine" 4 course

Each student is required to gain 8 credits (ECTS) during the year

List and annotations of elective courses at the choice of students

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| **№** | **CPV Name** | **Loans** | **Annotations** |
| 1 | Emergencies in otorhinolaryngology  (Department of Otorhinolaryngology) | 1 | The program provides for the study of theoretical as well as practical skills and abilities to diagnose and provide timely, urgent assistance to patients with various conditions in otorhinolaryngology, such 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 abscesses of other etiology, etc.).  Particular attention will be paid to working out the basic techniques and methods of providing emergency assistance to otorhinolaryngological patients, namely, working with dummies (anterior and posterior nasal tamponade, tracheotomy technique, etc.), visual aids. |
| 2 | Liver transplantation: definition, indications and post-transplant management of patients  (Department of Faculty Surgery) | 1 | The main goal of this course in liver transplantation is to increase the level of knowledge of students in the most important sections of liver transplantation. Studying in this elective course will allow students to acquire broader and deeper knowledge, get acquainted with the latest technologies and methods of liver transplantation. |
| 3 | Practical fundamentals of ultrasound diagnostics  (Department of Radiation Diagnostics and Therapy) | 1 | The provided elective course is devoted to the in-depth study and application of ultrasound diagnostics in various fields of medicine. The analysis of frequently encountered ultrasound examinations using the Doppler mode in gastroenterology, uronephrology, angiology, and endocrinology will be carried out. It is mandatory to illuminate the ultrasound of normal anatomy in different age categories and in pathology. Practical training on ultrasound machines is provided. |
| 4 | Modern methods of diagnosis, treatment and prevention of dyslipidemia (department of faculty therapy) | 1 | As part of this elective course, students will study the classification of dyslipidemias, methods of their non-drug treatment, prevention of cardiovascular diseases, the concept and diagnostic criteria of familial hypercholesterolemia, learn to determine the overall risk of CVD, and interpret laboratory indicators of dyslipidemia. |
| 5 | Microcrystalline arthritis (department of hospital therapy) | 1 | The relevance of this elective lies in the fact that today the number of patients with metabolic disorders is growing, which, accordingly, leads to an increase in metabolic diseases. For GP doctors, this is relevant because there is underdiagnosis or a combination of these diseases with gout, although individual microcrystalline arthritis has specific diagnostics, treatment and management. The lecture course outlines the most pressing and complex issues in terms of identifying rare metabolic disorders, in particular pyrophosphate and hydroxyapatite arthropathies. Practical lessons will focus on the analysis of the pathogenesis of certain forms of salt metabolism disorders. An important point in teaching is the comparison of the clinical manifestations of diseases at all stages of their development, which will instill in students the skills of clinical analysis and diagnostic signs. |
| 6 | Age physiology and pathology of the organ of vision  (Department of Ophthalmology) | 1 | Knowledge of ophthalmic techniques for examining the organ of vision will make it possible to timely prevent complications associated with a decrease in visual functions. In practical classes, students will receive information on the general semiotics of diseases of the organ of vision, learn the basic practical techniques for better consideration of the retina in diseases such as hypertension, atherosclerosis, and CNS damage. |
| 7 | Fundamentals of Dermatocosmetology (Department of Dermatovenereology) | 1 | An elective course opens up the world of medical dermatocosmetology for the student. The program deals with the physiology of skin aging, correction and prevention of various morpho-functional skin disorders, prevention of premature aging of the body. Also, students will get acquainted with the main laser technologies used in dermatology, with the main schemes for caring for various types of skin. |
| 8 | Features of the imposition of intestinal sutures in complicated forms of acute surgical diseases of the abdominal organs. (department of hospital surgery with a course of operative surgery) | 1 | Quite often, in abdominal surgery, operations such as resection of the small and large intestines are performed. At the same time, to restore the patency of the gastrointestinal tract, it is necessary to form an interintestinal anastamosis. Failure to comply with the principles of abdominal surgery, in particular - the requirements for intestinal sutures, leads to very serious consequences. In these conditions, the problem of the correct imposition of the intestinal suture becomes relevant for senior students of the medical faculty. |
| 9 | Emergencies in neurology  (Department of Neurology and Clinical Genetics) | 1 | In the program of the elective course, diagnostics, differential diagnostics, treatment and emergency care for metabolic, toxic, autoimmune diseases of the nervous system, as well as damage to the autonomic and peripheral nervous system, are studied in detail. |
| 10 | Operative surgery of the mediastinum (department of hospital surgery with a course of operative surgery) | 1 | Damage to the strenescence can lead to compression of vital organs located in it (heart, intrapericardial parts of large vessels, tracheal bifurcation, main bronchi, pulmonary arteries and veins, lymph nodes, esophagus, etc.).  The purpose of the elective course is to give an understanding of surgical approaches for diseases of the mediastinal organs, as well as of the therapeutic and diagnostic measures that are used in this section of surgery. |
| 11 | Basics of laparoscopic technologies in surgery  (Department of Faculty Surgery) | 1 | The course provides for the development by the student of new theoretical knowledge and practical skills and covers the types of specialized assistance in the basics of laparoscopy.  Practical exercises include:  - stitching of tissues under the control of an endovideo camera;  - intracorporeal knot tying;  - extracorporeal knot tying;  - performing laparoscopic (bovine macropreparation) visual diagnostics and biopsy;  -performance of laparoscopic (bovine macropreparation) appendectomy and cholecystectomy. |
| 12 | Thyroid gland and pregnancy (Department of Internal Medicine Propedeutics) | 1 | Within the framework of this elective course, the issues of basic approaches to solving the problems of thyroid gland diseases in pregnant women according to disciplinary objectives will be considered, including the usual regimens for the treatment of uncomplicated cases. |
| 13 | Emergency neurosurgery for violent trauma in peacetime (department of neurosurgery) | 1 | In this elective, the main parameters of the most common weapons will be considered, most of which are either legalized for use for self-defense, or are made clandestinely. The ballistics and characteristics of the infliction of injuries from one or another weapon will also be studied. But the main purpose of this course is to review the provision of primary health care at the scene of the accident, in the emergency room and the introduction of the patient in the conditions of secondary and tertiary hospitals. As a result, referring to the improvement of scientific and technological progress and dense urbanization with an increase in the population in urban areas, this elective course should provide the minimum necessary overview for students on the introduction of a category of patients, the frequency of which will only increase. |
| 14 | Practical fundamentals of pregnancy and childbirth management in rare diseases of the kidneys, liver and brain (Department of AIH) | 1 | The presented elective course is devoted to in-depth study and expansion of practical knowledge and skills in the introduction of pregnancy and childbirth in patients with a single kidney, diseases of the brain and liver, depending on clinical manifestations and laboratory diagnostic parameters. |
| 15 | Modern problems of immunization  (Department of General and Clinical Epidemiology) | 1 | 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 of immunoprophylaxis, new technologies for obtaining vaccines have been developed, schemes and methods of administration have been improved.  Knowledge of the basics of organizing vaccinations and new directions in the development and production of immunobiological drugs is necessary for future public health professionals. |
| 16 | Valeology  (Department of General Hygiene) | 1 | The purpose of the discipline:  Students gain knowledge, skills and abilities to form, maintain and strengthen health by studying and using the patterns of health formation and developing ways to model and achieve a healthy lifestyle.  The program provides for the study of the foundations of a healthy lifestyle, environmental factors, its components, natural, anthropogenic aspects. |

**Student elective courses (CPC) for the academic year 2020-2021**

Specialty: "General Medicine" 5 course

Each student is required to gain 6 credits (ECTS) during the year

List and annotations of elective courses at the choice of students

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| **№** | **CPV Name** | **Loans** | **Annotations** |
| 1 | The role of assisted reproductive technologies (ART) in family planning (department AiG) | 1 | The purpose of the elective course "The role of assisted reproductive technologies (ART) in family planning" is to study the possibilities of modern medicine, in particular, ART methods, in solving problems with the onset of a long-awaited pregnancy and the birth of healthy offspring, consolidating knowledge of the characteristics of the course and tactics of managing pregnancy after IVF, choosing method of delivery. As a result of mastering the elective course, students will know the main types and methods of ART, indications for IVF, ICSI and VII, preparation for IVF, selection and examination of patients, IVF complications, peculiarities of the course of pregnancy resulting from IVF, peculiarities of pregnancy management after IVF, hormonal support, methods of delivery of women whose pregnancy occurred after IVF. |
| 2 | Occupational diseases arising from exposure to harmful chemicals (department of state therapy, occupational pathology with a course of hematology) | 1 | This elective course provides an opportunity to study the main occupational diseases caused by exposure to chemicals, to master the basics of prevention and examination of working capacity. |
| 3 | Pathophysiology of drug addiction and substance abuse (Department of Pathological Physiology) | 1 | Drug addiction - occupies one of the most important places among the modern "diseases of civilization"  Within the framework of this course, the questions of the etiology and pathophysiology of drug addiction and substance abuse will be considered; general mechanisms of action of drugs and drugs and psychoactive substances on the nervous system. |
| 4 | Biochemical aspects of carcinogenesis (Department of Biochemistry with a course of general and bioorganic chemistry) | 1 | The purpose of this elective course is to expand and systematize students' knowledge about the biochemical foundations of carcinogenesis and its consequences. The following issues will be considered:  - Sources and ways of spreading carcinogenic factors in everyday life (bad habits - smoking), at work, in the environment  - Factors contributing to carcinogenesis: physical chemical, biological or oncoviruses.  - Major chemical carcinogens.  - Mechanisms and markers of carcinogenesis.  - Critical stages in the development of carcinogenesis.  - Features of the metabolism of tumor cells |
| 5 | Emergencies, palliative therapy and rehabilitation of cancer patients. (Department of Oncology) | 1 | According to the WHO, more than 8 million primary patients with malignant tumors are annually registered all over the world and about 7 million die from oncological pathology (in terms of annual mortality, malignant tumors rank second in the world after cardiovascular pathology). Analysis of statistical data for Kyrgyzstan shows a tendency for an increase in morbidity and mortality rates for most localizations of malignant neoplasms. It should be noted that there remains a high proportion of newly diagnosed patients with advanced stages of the oncological process. The program highlights modern methods of treatment of complications of malignant neoplasms of the main localizations, palliative therapy. The issues of rehabilitation of cancer patients remain important. With modern approaches, the provided rehabilitation assistance improves the quality of life of cancer patients. |
| 6 | Practical fundamentals of magnetic resonance imaging of the human body (Department of Radiation Diagnostics and Therapy) | 1 | Magnetic resonance imaging (MRI) has become a key imaging technique in clinical medicine and is highly effective in diagnosing a wide variety of diseases. This elective is provided for a more in-depth study and practical orientation of the method, the formation of literacy about its application in various fields of clinical medicine. During the elective course, students study and generalize the general principles of magnetic resonance imaging of "changed" and "healthy" tissues of the human body, observe functional changes in some structures, multilevel tissue contrast of the investigated area. As part of the elective course, it is meant the analysis of tomograms and clinical cases in the sections of the musculoskeletal system, gynecology, uronephrology, neurology, angiology, pediatrics, endocrinology, focusing on mastering the MRI method and consolidating practical skills. It is obligatory to study the specifics of normal anatomy with MRI and pathological anatomy in different age categories. The CPV includes lectures and practical exercises with a demonstration of magnetic resonance imaging and the possibility of conducting research, as well as independent work of the student according to the thematic plan |
| 7 | Fundamentals of Genital Surgery (Department of Urology) | 1 | The aim of the course is to familiarize students with the basics of genital surgery - a separate direction in modern reconstructive plastic surgery and urology, which involves various surgical interventions on the genitals (penis, scrotum, testicles and urethra). Genital surgery got its development quite recently, after the separation from general urology of such a direction as andrology, i.e. the science of man. |
| 8 | Introduction to Sexual Medicine (Department of Urology) | 1 | Sexual and reproductive health plays a significant role for every person, society and state. These are issues of development, reproduction and quality of life, which are the right of every person. Sexual health is a state of physical, mental and social well-being in relation to sexuality; it is not simply the absence of disease, dysfunction, or infirmity. Sexual health involves a positive and respectful attitude towards sexuality and sexual relations, the ability to have a safe and satisfying sex life, free from coercion, discrimination and violence.  Erectile dysfunction along with premature ejaculation are the most common male sexual health problems. ED is a very common disease, as it occurs in 52% of men aged 40–70 years. ED does not threaten the patient's life, it is a serious psychological and physiological problem, despite the fact that at present, the relationship between the quality of intimate life and general health is shown. even with a lifespan. ED can be based on various reasons - psychological, neurological, endocrinological, vascular - arterial and associated with impaired functioning of the corpora cavernosa, or a combination of the above factors.  In connection with the above, the role of andrology in the educational process has also increased. The program of the elective course in andrology "Introduction to Sexual Medicine" provides for the continuity of teaching related theoretical and clinical disciplines (urology, gynecology, endocrinology, cardiology, etc.). |
| 9 | Coronavirus infection COVID19. Diagnostics and treatment. (Department of Infectious Diseases) | 1 | This elective course is designed to teach students the basics of diagnosis and treatment of Coronavirus infection COVID19. Considering that this infection for medicine and for the scientific world is a new and first appeared disease, the working group of the Ministry of Health of the Kyrgyz Republic developed and approved the Interim Clinical Guidelines for the diagnosis and treatment of Coronavirus infection. In the process of studying CPV, students will receive up-to-date knowledge on diagnosis and treatment, as well as sorting patients. In the thematic plan, there is a practical lesson on the algorithm for putting on personal protective equipment. |
| 10 | Pediatric allergology  (Department of Hospital Pediatrics) | 1 | Allergic diseases in children are becoming increasingly important in modern conditions. The general practitioner is experiencing difficulties in the diagnosis and management of children with these diseases due to the lack of information and basic knowledge of pediatric allergology. The purpose of the elective course "Pediatric Allergology" is to deepen and supplement the basic knowledge of this section of pediatrics with an emphasis on the practical issues of diagnosis and management of allergic diseases in children. |
| 11 | HIV and the child  (Department of Children's Infectious Diseases) | 1 | As part of this elective course, students will receive basic information about HIV infection, how it progresses in children, and what primary care providers need to know about HIV infection in children. |
| 12 | Arterial hypertension in children  (Department of Hospital Pediatrics) | 1 | Treatment and especially prevention of hypertension in children are currently at a very low level. As a rule, arterial hypertension is diagnosed already in people of working age, when complications form and regular drug treatment is required, and preventive measures are insufficient. It should be noted that the prevention and treatment of arterial hypertension in childhood helps prevent the transformation of arterial hypertension into ischemic and hypertensive diseases, which are the main cause of disability and mortality in the adult population. |
| 13 | Dysplastic Disorders in Orthopedics (Department of Traumatology and Orthopedics) | 1 | Dysplasia is currently considered to be a violation, abnormal development of tissues, organs or parts of the body. In orthopedics, dysplastic disorders are found in the form of scoliotic disease, torticollis, flat feet.  Relevance: Late diagnosis and, as a consequence, late treatment, lack of proper preventive measures at the initial stage of the disease, subsequently lead to the disability of patients already in early childhood. Further, these patients in adulthood remain disabled and permanent chronic patients of orthopedists, therapists, which requires certain material costs.  In the course of the training course, the main theoretical aspects of diseases will be outlined, in practice, students will master the skills of early diagnosis, prevention, and treatment of dysplastic disorders in orthopedics. |
| 14 | Stigma and Discrimination: Adherence to Tuberculosis Treatment (Phthisiology Department) | 1 | The purpose of the discipline: The acquisition by students of the knowledge necessary for the management of patients in compliance with ethical and deontological norms of behavior of a general practitioner in the identification and diagnosis, prevention and treatment of patients with tuberculosis. |
| 15 | Healthcare Marketing (Department of Healthcare) | 1 | Healthcare marketing is a social and managerial process aimed at meeting the needs and requirements of the population for medical care through the creation, supply and exchange of valuable medical and pharmaceutical services and goods on the market.  The goal of medical marketing is to attract new patients by constantly meeting their changing demands for medical products and services. |

**Student elective courses (CPC) for the academic year 2020-2021**

Specialty: "General Medicine" 6 course

Each student is required to gain 7 credits (ECTS) during the year

List and annotations of elective courses at the choice of students

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| **№** | **CPV Name** | **Loans** | **Annotations** |
| 1 | Algorithm for providing ambulance in acute mental and narcological conditions by general practitioners  (Department of Medical Psychology, Psychiatry and Narcology) | 1 | As part of this elective course, students will gain special knowledge and skills to cope with situations requiring emergency therapeutic interventions. The knowledge and skills for providing emergency psychiatric care are necessary for doctors of all specialties, since these conditions are quite common both in outpatients and among inpatients. |
| 2 | Therapeutic classic massage  (Department of Clinical Rehabilitation and Physiotherapy) | 1 | The program is designed for the initial study of massage. Within the framework of this course, all types and techniques of massage, hygienic principles of massage, the mechanism of the therapeutic effect of massage on the body will be considered, recommendations for massage of various parts of the body will be given. |
| 3 | Features of forensic medical examination in extreme cases  (department of forensic medicine and jurisprudence) | 1 | Within the framework of this elective course, the features of forensic medical examination in cases of mass death of people are studied; when causing bodily harm; and also - in cases of self-harm, simulation, aggravation and disaggregation. The practical lessons will highlight the features of the inspection of the scene and sorting of corpses for further identification of the person, establishing the cause and mechanism of death. |
| 4 | "Treatment of seriously ill and dying patients in the practice of a family doctor in a home hospital."  (Department of Family Medicine for pre-graduate studies) | 1 | The program of this elective course is devoted to the main medical problems arising in seriously ill and dying patients with diseases such as terminal stages of heart, renal, pulmonary, liver failure, tuberculosis, HIV-AIDS, after a stroke, with dementia, Alzheimer's disease and medical care for these conditions. The issues of the organization of a hospital at home, the main methods of treatment and patient care, the solution of medical, moral and ethical problems in the practice of a family doctor are considered. |
| 5 | "Medical rehabilitation for diseases of the nervous system" (Department of Neurology and Clinical Genetics) | 1 | As part of the elective course, the study of the basic principles and methods of rehabilitation in neurology, as well as the basics of rehabilitation therapy for major diseases of the central and peripheral nervous system (vascular, traumatic, metabolic, infectious and inflammatory) will be carried out. |
| 6 | Social Gerontology (Dept. OZZ) | 1 | This elective course examines issues closely related to the lifestyle of older people, health promotion, longevity, the organization of medical care, as well as ethical and legal issues related to the protection and guarantee of the rights of the elderly and old people. |
| 7 | Management of patients with Coronavirus infection (COVID 19) on an outpatient basis. (Department of Infectious Diseases) | 1 | The aim of teaching this course is to improve students' knowledge on the management of patients with Coronavirus infection at an outpatient level. Students in the learning process will study educational material on the management of patients with mild to moderate forms of COVID19. |
| 8 | Basic cardiopulmonary resuscitation in children  (Department of Faculty Pediatrics) | 1 | The elective course “is compiled taking into account the new recommendations for the provision of emergency and resuscitation care to the children's population of the Kyrgyz Republic and is based on the latest effective practices of international evidence-based medicine.  The course provides for the formation of knowledge, skills and practical skills in providing emergency care to children with cardiopulmonary insufficiency. |
| 9 | "Differential diagnosis of diseases involving skin and mucous membranes in the practice of a general practitioner"  (Department of Family Medicine for pre-graduate studies | 1 | This elective course aims to provide the student with additional competencies in the differential diagnosis of diseases of internal organs and the endocrine system, occurring with lesions of the skin and mucous membranes, necessary for the work of a general practitioner |
| 10 | Urgent Pediatric Nephrology (Department of Faculty Pediatrics) | 1 | Clinical manifestations of a sharp deterioration in renal function are often little noticeable, therefore, special attention is paid to the analysis of the dynamics of laboratory parameters with a detailed description of markers. Features of kidney disease often become decisive in the choice of management tactics. Regardless of the etiological and pathogenetic nature, the general principles of treatment are justified in all cases. |
| 11 | Constipation, problems. Differentiated therapy for constipation  (Department of Internal Medicine Propedeutics) | 1 | Constipation (obstipation) is an important medical and social problem that practitioners often face: therapists, general practitioners - family medicine, gastroenterologists. The quality of life of patients suffering from chronic constipation is comparable to the quality of life of patients with diabetes mellitus, arterial hypertension and depression. Practitioners often do not know modern examination methods, find it difficult to treat chronic constipation.  This elective course is designed to provide state-of-the-art care to the general practitioner. Timely recognition of the basic clinical and laboratory-instrumental signs of constipation is important. |
| 12 | Fundamentals of modern medical legislation (department of forensic medicine and jurisprudence) | 1 | This elective course is provided for students of a medical profile, as well as for students of the Faculty of Pharmacy, to acquire knowledge in the field of legal regulation of medical activity. The issues of legislative support for the protection of public health, the rights and obligations of medical organizations, medical and pharmaceutical workers, as well as citizens in the field of health care, problems of social and legal protection of medical and pharmaceutical workers are considered. |
| 13 | Algorithm for outpatient management of early pregnancy pathology (department AiG) | 1 | Developed with the aim of mastering the practical skills and abilities of 6th year students in the timely diagnosis of tubal pregnancy, which will allow the use of methotrexot therapy and prevent surgical treatment of ectopic pregnancy with its known complications, differential diagnosis of frozen pregnancy will determine the safest methods of evacuation of the contents of the uterine cavity; differential diagnosis of vomiting in pregnant women will prevent polypharmacy and possible complications of pregnancy. |
| 14 | Management of pregnancy, childbirth and the postpartum period in women who use psychoactive substances (department AiG) | 1 | The aim of the elective course "Introduction of pregnancy, childbirth and the postpartum period in women who use psychoactive substances" is to master the practical skills and abilities of identifying pregnant women who use psychoactive substances, counseling this category of patients throughout pregnancy, childbirth and the postpartum period, prevention of the effect of psychoactive substances on this category of women and their children. |
| 15 | Endoscopic surgery in a polyclinic (department of general surgery with a course of combustiology) | 1 | The purpose of teaching an elective course is to teach students the knowledge necessary for EGD, as well as its use for therapeutic purposes and the concept of EPST (Endoscopic papillosphincterotomy) as a minimally invasive method of treatment on an outpatient basis. |
| 16 | Medical and social examination (department of OziZ) | 1 | The main purpose of teaching the elective course "Medical and Social Expertise" is the development of students' knowledge on topical issues of medical and social expertise, analysis of disability in the Kyrgyz Republic and regulatory documents on medical and social expertise and rehabilitation, as well as studying the features of examination for different nosological forms of the disease. |
| 17 | Prevention of venous thromboembolic complications during pregnancy, childbirth and the postpartum period  (department AiG) | 1 | The aim of the elective course "Prevention of venous thromboembolic complications during pregnancy and in the postpartum period" is to acquire practical skills in assessing and documenting risk factors for venous thromboembolic complications before and during pregnancy, as well as thromboprophylaxis, which will prevent maternal morbidity / mortality due to thrombosis during pregnancy, childbirth and the postpartum period. |