Study branch: GENERAL MEDICINE

Course: ANATOMY 1, 2, 3

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Syllabus: ANATOMY 1, 2, 3


LECTURES:

1st class, winter semester

1st class, summer semester

2nd class, winter semester

PRACTICAL LESSONS:

1st class, winter semester
b/ Situs viscerum abdominis.

1st class, summer semester
a/ Muscles of the upper limb. Topografic regions of the upper limb. Muscles of the lower limb. Topografic regions of the lower limb. Muscles of the head, neck, and back. Topografic regions of the head, neck and back. Muscles of the thorax and abdomen. The sheath (vagina m. recti abdominis) of rectus abdominis muscles.
b/ Dissection (abdomen and thorax)


**2nd class, winter semester**

**a/ Dissection (vessels, nerves)**


**b/ practical lessons (CNS)**


**Evaluation of subject**

**Examination** - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: BIOPHYSICS

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Syllabus: BIOPHYSICS


LECTURES:
PRACTICAL TRAININGS:
1. Seminar about questions with medical-physical problematics.
2. Seminar about questions with medical-physical problematics.
3. Solving of problems regarding general medicine
4. Individual work with information and communication technology for preparation of the semestral work.
5. Solving of problems regarding general medicine
6. Solving of problems regarding general medicine
7. Solving of problems regarding general medicine
8. Solving of problems regarding general medicine
9. Individual work with information and communication technology for preparation of the semestral work.
10. Solving of problems regarding general medicine
11. Solving of problems regarding general medicine
12. Solving of problems regarding general medicine
13. Collection of semestral works, confirmation of processed problems and chosen pre-printed experiments. Final evaluation. Credit.

1. MEFANET and ELECTRONIC UNIVERSITY
2. Principles of telemedicine
3. National health portal in SR
4. Principles of eHealth
5. Principles of coding of national medical nomenclatures for eHealth

Examination - oral form (defence of semestral project)
**Study branch:** GENERAL MEDICINE  

**Course:** BIOLOGY AND HUMAN GENETICS 1, 2  

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**Syllabus:** BIOLOGY AND HUMAN GENETICS 1, 2  


**LECTURES:**  

**winter semester**  

The cell - basic characteristics, membraneous structures of cell; intercellular communication; cell cycle, mitosis. Viruses. Prokaryot and protozoa, medical impact. Molecular biology - structure and isolation of DNA and RNA, their interactions in various biological systems; genetic code; expression of genes in prokaryotic and eukaryotic cells; DNA recombinations (vectors), utilisation of molecular biology in clinical medicine.  

**summer semester**  

Organization of human genome: types of DNA, homeoboxes. Mechanisms controlling gene expression: transcription factors, homeodomains, DNA binding domains, inactivation of X chromosome, methylation. Regulation of the cell cycle, molecular basics. Mechanism of

PRACTICAL LESSONS:

winter semester

summer semester

Examination - oral form
Syllabus: HISTOLOGY AND EMBRYOLOGY 1, 2

**Histology** as a science. Methods of study of the cell (light microscopy, transmission and scanning electron microscopy, immunohistochemistry, histochemistry, cell fractionations, in vitro hybridisation, autoradiography, freeze-fracturing).

**Cytology.** Morphological and functional properties of the cell. Cell components. Cell cycle and cell division.


LECTURES:
1st class, summer semester

2nd class, winter semester

PRACTICAL LESSONS:
1st class, summer semester

2nd class, winter semester

Evaluation of subject
Examination - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: MEDICAL CHEMISTRY FOR GENERAL MEDICINE

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Syllabus: MEDICAL CHEMISTRY FOR GENERAL MEDICINE


LECTURES:

PRACTICAL LESSONS AND SEMINARS:
a) seminars:
Preparation and presentation of semestral works.

b) laboratory practices:

Examination - written part
- oral part
Study branch: GENERAL MEDICINE

Course: LATIN MEDICAL TERMINOLOGY

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Syllabus: LATIN MEDICAL TERMINOLOGY


LIST OF LECTURES:

SEMINARS:

Examination - written form
Study branch: GENERAL MEDICINE

Course: FIRST AID

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Syllabus: FIRST AID


LECTURES:
2. Basic life functions. Respiratory system, heart and circulatory system, blood (basics of functional anatomy and physiology) - attitude to first aid. Transport of oxygen.
3. Diagnostics of basic life functions. Essential lifesaving actions.
4. General principles of first aid provision (classification of sudden incidents, situation assessment, activation of emergency system, safety, treatment, handover)
7. Respiratory malfunctions, asphyxia and first aid. Spasmodic conditions and first aid
8. Unconsciousness, intoxications and first aid.
9. Injuries, bleeding from wounds (physical and chemical impacts, bleeding stoppage, wound treatment). Shock - pathophysiology, causes, symptoms, first aid provision.
10. Fractures, injuries of backbone, muscles and joints. First aid kit, bandaging techniques.

INTERNSHIPS:
Study branch: GENERAL MEDICINE

Course: PHYSICAL TRAINING

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Syllabus: PHYSICAL TRAINING

Sports and games as a form of physical culture are an important subject in the curriculum of the School of Medicine. During the whole study they help to develop the future physician’s personality. They strengthen and improve the student’s health, enhancing at the same time their theoretical knowledge, practical skill and experience in matters of physical culture. They introduce the students both to the natural interdisciplinary relation between medicine and physical culture, and the role of sports and games as an important means of prevention of diseases.

PRACTICAL LESSONS:
Theory, methodology and practice of one of the following sports and games: basketball, volleyball, football, foot-volleyball, tennis, swimming, handball aerobic, water sports, fitness, bodybuilding, hiking, callanetics, yoga, winter sports.

4th - 6th class, summer and winter semester
Optional sports and games (as given above) according to the student’s interest.

Winter and summer courses
Optional participation.

Credits
Study branch: GENERAL MEDICINE

Course: SLOVAK LANGUAGE

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Syllabus: SLOVAK LANGUAGE


**1st class, winter semester**

**1st class, summer semester**

**2nd class, winter semester**

**2nd class, summer semester**
3rd class, winter semester
Further development and improvement of communicative abilities about general diseases and surgical interventions.
Reading of medical texts, taking history, manifestations of skin diseases, examination of cardiovascular system, abdominal examination, investigation of body systems, making diagnoses and therapy.

Evaluation of subject

Examination - written part (test)
- oral part
**Study branch:** GENERAL MEDICINE

**Course:** MEDICAL BIOCHEMISTRY FOR GENERAL MEDICINE

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**Syllabus:** MEDICAL BIOCHEMISTRY FOR GENERAL MEDICINE


**LECTURES:**

**winter semester**
summer semester

PRACTICAL EXERCISES AND SEMINARS:
winter semester

summer semester

Examination  - written part
- oral part
Study branch: GENERAL MEDICINE

Course: PHYSIOLOGY

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Syllabus: PHYSIOLOGY


**LECTURES:**

**winter semester**
Physiology of excitable tissues (electrophysiology of receptors, nerves and muscles). Physiology of the respiratory system. Physiology of the gastrointestinal system. Metabolism and physiology of nutrition.

**summer semester**
Physiology of the central nervous system. Physiology of the cardiovasculär system. Thermoregulation. Physiology of the kidney. Physiology of the endocrine glands.

**PRACTICAL LESSONS:**

**winter semester**

summer semester

SEMINARS:
winter semester

summer semester

Examination - practical part - (written test, practical task)
- oral part
Study branch: GENERAL MEDICINE

Course: IMMUNOLOGY

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Syllabus: IMMUNOLOGY


PRACTICAL CLASSES


Examination  - written part (test)
- oral part
Study branch: GENERAL MEDICINE

Course: BASIC NURSING

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Syllabus: BASIC NURSING


Credit - written form (test), checking of practical knowledge

Evaluation of subject
Syllabus: MICROBIOLOGY 1


(Note: A part of the topics is contained in the lectures and a part is included in individual study.)

LIST OF LECTURES:

**PRACTICAL LESSONS AND SEMINARS:**

**Evaluation of subject**
Syllabus: MICROBIOLOGY 2

(Note: A part of the topics is contained in the lectures and a part is included in individual study.)

LIST OF LECTURES:

PRACTICAL LESSONS AND SEMINARS:
Diagnostics of gram-negative aerobic cocci (Neisseria, Moraxella). Diagnostics of gram-positive cocci (Staphylococcus, Streptococcus, Enterococcus). Diagnostics of facultatively anaerobic gram-negative rods (from Enterobacteriaceae family and genus Haemophilus). Diagnostics of gram-negative non-fermenting rods (Pseudomonas and other GNNFB). Diagnostics of the genera Mycobacterium, Mycoplasma, Ureaplasma and Chlamydia.
Collection and transport of samples for microbiological examination (bacteriological, virological, mycological and parasitological). Microbiological diagnostics of sepsis and endocarditis,
Student can take examination from microbiology only after active participation at all practical lessons and passing both written tests.

**Examination** - written part (test)
- oral part
Study branch: GENERAL MEDICINE

Course: PHARMACOLOGY 1, 2

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Syllabus: PHARMACOLOGY 1, 2


LECTURES:

3rd class, summer semester


PRACTICAL LESSONS:

3rd class, summer semester


4th class, winter semester

LECTURES:
4th class, winter semester

PRACTICAL LESSONS:
4th class, winter semester.
Examination - written part (test); oral part
Study branch: GENERAL MEDICINE

Course: SURGICAL PROPEDEUTICS 1, 2

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Syllabus: SURGICAL PROPEDEUTICS 1, 2


LECTURES:

PRACTICAL LESSONS:
Acquaintance with the surgical department, system of work at the department. Hygienic standard, hygienic habits, nosocomial infections. Taking up blood, urine, stool samples for investigation. System of operating theatres. Surgical instrumentarium, suture material, knotting and sutures. Surgeon’s preparation before operation, preparation of the operation field, anaesthesia. Demonstration of patients - investigation of a patient, individual taking of the history, surgical

Examination - oral form
Study branch: GENERAL MEDICINE

Course: INTERNAL MEDICINE 1, 2, 3, 4, 5

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Syllabus: INTERNAL MEDICINE 1, 2, 3, 4, 5


LECTURES:

3rd class, summer semester

4th class, winter semester

4th class, summer semester

5th class:

**CLINICAL TRAINING:**

**3rd class, summer semester**
**Credit: test 70 % of correctly answered questions.**

**4th class, winter semester**
**Credit: test 70 % of correctly answered questions.**

**4th class, summer semester**
**Credit: test 70 % of correctly answered questions.**

**5th class**

**PNEUMOLOGY AND PHTHISEOLOGY**

**CLINICAL TRAINING:**

**5th class, summer semester**


**Evaluation of subject**

**Examination:** - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: INTERNAL PROPEDEUTICS

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Syllabus: INTERNAL PROPEDEUTICS


LECTURES:

Practical lessons:

Examination
- oral part (questions + ecg, rtg)
- practical part (physical examination)
Study branch: GENERAL MEDICINE

Course: MEDICAL PSYCHOLOGY AND COMMUNICATION WITH PATIENTS

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**Syllabus:** MEDICAL PSYCHOLOGY AND COMMUNICATION WITH PATIENTS


**LIST OF LECTURES:**


**SYLLABUS OF PRACTICUM:**

Psychology of a patient, attitudes towards illness, reactions on illness. Psychology of a medical examination and therapy, medical environment, medical staff. Demonstrations of attitudes towards the illness and the therapy. Psychology of the treatment, placebo effect. Specificity of communication in child and adolescence

**Examination:** - oral form
Study branch: GENERAL MEDICINE

Course: PATHOLOGICAL ANATOMY 1, 2

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Syllabus: PATHOLOGICAL ANATOMY 1, 2


**Special pathology**: Pathology of circulation, hemopoetic, respiratory, alimentary, urinary, genital, nervous and locomotion systems. Pathology of the endocrine and neuroendocrine system, skin, sensoric organs. Neonatal pathology.


**PROGRAM OF LECTURES**:

HISTOPATHOLOGY PRACTICALS

winter semester

Autopsy:

summer semester

**Autopsy:**
Macrosopic findings of brain and spinal cord diseases. Macrosopic findings of neck and chest organs diseases. Macrosopic findings of liver complex diseases. Macrosopic findings of urogenital system diseases. Macrosopic findings of genital organs diseases. Macrosopic findings of hemopoetic system and RES diseases.

**Examination** - practical part (description of gross finding at autopsy, histo-pathological dg. of a slide)
- written part (test)
- oral part
Study branch: GENERAL MEDICINE

Course: PATHOLOGICAL PHYSIOLOGY 1, 2

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Syllabus: PATHOLOGICAL PHYSIOLOGY 1, 2


**LECTURES:**

**winter semester**


**summer semester**


**SEMINARS AND PRACTICAL LESSONS:**

**winter semester**

**summer semester**

**Examination** - written part; oral part
Objective of the subject: INTERNAL PROPEDEUTICS - summer practice

The objective of the practice is to obtain practical knowledge at the internal department and check theoretical knowledge at the bedside as well as to become acquainted with physicians’ activities, their work at the bedside and in internal medicine outpatient department of polyclinics.

Syllabus (practice description)

1) Independent managing of basic diagnostic and therapeutic performances:
   a) writing medical documentation and conducting records of clinical course (decursus morbi), urine examination and ECG recording
   b) administration of injections (s.c., i.m., i.v.) and infusions i.v.
   c) managing basics of nursing technique

2) Medical students are obliged to take part in ward rounds at the department and work in internal medicine outpatient department according to the working schedule which is stated by the consultant of the department.

3) At the assistance of a senior doctor to learn:
   a) to give transfusion from the reading of crossmatch up to administration of stored blood
   b) evaluation of the differential blood count
   c) interpretation of an X-ray scan
   d) examination per rectum and examination of the blood in stool

4) To assist or to take part in the following examinations:
   a) sternal puncture and its evaluation
   b) ascites puncture, hydrothorax puncture
   c) rectoscopy
   d) stomach X-ray, irigoscopy
   e) sonographic examination of abdominal cavity (pancreas, kidneys, gall bladder)

   During the summer clinical practice at internal medicine department a medical student has to perform two emergency service duties.

Credits
Objective of the subject: SURGICAL PROPEDEUTICS - summer practice

The objective of the practice is to obtain practical knowledge for the work in appropriate care doing the fieldwork and to test theoretical knowledge from the field of study in solving various, particularly acute conditions in both outpatient and inpatient departments and in ICU.

Syllabus (practice description)
1. Managing of washing before the operation, sterile dressing of a surgeon before surgical procedure, preparation of the operation field, positioning and draping of a patient.
2. Assistances at surgical procedures, practical use of particular surgical instruments.
3. Managing of re-bandage at the outpatient department, minor surgical procedures (incisions, excisions, wound sutures), using of local anaesthesia (infiltration and block), drainage technique in minor surgery.
4. Managing of the bandage techniques (Desault, capistum, spicas, testuda, etc.). Plastering technique, practical application of plaster bandages under the supervision.
5. Examination of a surgical patient, medical record, preoperative examinations and preoperative preparation (premedication, dietetic, psychological).
6. Administration of intramuscular injections, venous injections under the supervision of a physician and assistance at transfusion and blood transfers. Re-bandage of surgical wounds.
7. Assistance at some investigative and therapeutical methods (rectoscopy, X-ray examinations, gastrofibroscopy, ERCP, thoracic and abdominal paracentesis, paracentesis of the vegetative nerve system blockage, major veins cannulation, etc.)
8. Regularly taking part in ward rounds.

Credits
Study branch: GENERAL MEDICINE

Course: ANESTHESIOLOGY AND INTENSIVE MEDICINE 1, 2

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Syllabus: ANESTHESIOLOGY AND INTENSIVE MEDICINE 1, 2


**Resuscitation.** Cardiopulmonary resuscitation - BLS - Basic Life Support in Adults, Infants and Children. Cardiopulmonary resuscitation - ALS (Advanced Life support). Defibrillation, AED.


LIST OF LECTURES:

**winter semester**

**summer semester**
SYLLABUS OF PRACTICALS:

**winter semester**


**4th class, summer semester**


**Examination**
Study branch: GENERAL MEDICINE

Course: HYGIENE

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Syllabus: HYGIENE


LIST OF LECTURES:

SYLLABUS OF THE PRACTICALS:

Examination - oral form
Study branch: GENERAL MEDICINE

Course: SURGERY 1, 2, 3, 4

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Syllabus: SURGERY 1, 2, 3, 4


**LECTURES:**

**4th class**

**5th class**

**Clinical Training:**

**4th class**

**CLINIC OF ONCOLOGICAL SURGERY**

**Research fellowships**

**SEMINARS:**
Introduction to oncological surgery, options of surgical procedures in solid tumors diseases. The role of sentinel node biopsy and lymphadenectomy in carcinomas.

Surgical treatment of:
- CA gl. thyroideae,
- CA mammae,
- Carcinomas of gastrointestinal tract (stomach, pancreas, colorectum),
- Malignant melanoma
- Metastasis in liver

**5th class**


**Evaluation of subject**
Study branch: GENERAL MEDICINE

Course: MEDICAL ETHICS

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Syllabus: MEDICAL ETHICS


LECTURES:
Subject of medical ethics - the human being. Dignity of human person, his/her identity, integrity and individuality in the context of modern medicine. A short history of medical ethics from ancient time to nowadays. The most important international ethical codes, declarations and conventions in biomedicine. Ethical dilemmas on the beginning of human life, prenatal diagnostics, research on human embryos. Ethical dilemmas on the end of human life (terminal and palliative care, hospices, euthanasia). Tolerancy and some other parts of life in democratic society from medicoethical point of view.

SEMINARS:
The relationships between physician-patient and physician-relatives of patient, principles of optimal communication with emphasis on stomatology. Truth telling, truth and hope at the bedside, rights of patients. Fetal medicine, regulation of human reproduction, abortion...Ethical problems in pediatrics. Biomedical research, genetic testing, CE’s Convention and its Protocols. Ethical aspects in transplantology and urgent medicine. Ethical aspects of medical care of elderly and of terminal ill. Some social problems and the attitude of physicians to them. Future of marriage and family in 21st century from medicoethical point of view.

Evaluation of subject
Study branch: GENERAL MEDICINE

Course: NEUROLOGY 1, 2

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Syllabus: NEUROLOGY 1, 2


LECTURES:

winter semester

summer semester

CLINICAL TRAINING:

winter semester
History of the neurological patient. General examination. Neurologic examination. Examination of cranial nerves, upper and lower extremities. Examination of abdominal reflexes. Examination of the spine, standing, walking and sensation. Examination of the cerebellum and extrapyramidal system. Peripheral and central paralysis, disturbances of sensation. Cortical syndromes (prefrontal, frontal, parietal, occipital, temporal). Disturbances of symbolic functions. Spinal cord syndromes (transverse spinal cord lesion, Brown-Séquard syndrome - hemisection of the spinal cord, syringomyelic and tabic syndrome; conus

**summer semester**

Principles of medical ethics in examining the neurologic patient. Information of the spectrum of the most frequent neurological diseases and demonstration of patients.

a) Cerebrovascular diseases (brain ischaemia, TIA, haemorrhage, subarachnoidal haemorrhage, vertebrobasilar insufficiency, vascular lesions of the spinal cord).

b) Tumours of the nervous system (glioblastoma, astrocytoma, acoustic neurinoma, meningioma, ependymoma, medulloblastoma).

c) Traumatic lesions of the NS (brain and spinal cord concussion and contusion, epidural and subdural haematoma acute and chronic, fractures of the skull, cranial base and vertebrae, traumatic subarachnoidal haemorrhage).

d) Diseases due to spine and intervertebral disk disorders (sciatica, cervical radicular syndrome, diskopathies).

e) Infectious, inflammatory and demyelinating diseases of the NS (various types of encephalitis, encephalomyelitis, meningitis, herpes zoster, polyneuritis and polyradiculoneuritis; arachnoiditis and arachnopathy; neurologic manifestations of AIDS, Jakob-Creutzfeldt disease).

f) Degenerative and heredodegenerative diseases of the NS (Parkinson’s disease, Huntington’s chorea, hepatolesional degeneration - Wilson’s disease, spinocerebellar heredoataxia - Friedreich’s disease; amyotrophic lateral sclerosis, spinal muscular atrophies; myopathy).

g) Epilepsy and other paroxysmal NS diseases (narcolepsy, migraine, trigeminal and glossopharyngeal neuralgia).

h) Lesions of peripheral nerves.

i) NS disorders of psychic origin (neuroses, hysteria, psychogenic seizures and consciousness clouding).

Complementary examinations: basic laboratory screening tests (blood, urine). Technique of cerebrospinal fluid tapping, examination of CSF, the most frequent findings. X-ray scans of head and spine, carotic and vertebral angiography, perimyelography, demonstration of procedure and scans). Demonstration of CT and MR scans. Duplex ultrasonography, embolidetection. Demonstration of the most frequent records. Evoked potentials. The most frequent EMG findings. Psychologic laboratory, the most frequently used psychologic tests.

Strategy of diagnostic process and treatment. In all cases of examined patients, main characteristics of the disease, clinical signs and symptoms, diagnostics and differential diagnostics, course, treatment and prognosis. Epicrisis.

Individual examination of the patient by a student under the teacher’s supervision. Analysis and evaluation of students’ written medical reports of the examined patient and checking of students’ knowledge.

**Examination**

- practical part (examination of a patient)
- written part
- oral par
Syllabus: ONCOLOGICAL PROPEDEUTICS

Aim of the study is to provide students with basic knowledge of aetiopathogenesis, diagnostics and therapy of neoplastic diseases and the theoretical basis for study of clinical oncology. The course is aimed to technical skills and methodological approaches in the localisation diagnostics of tumours and the methodology of radiotherapy and chemotherapy.

LECTURES:

CLINICAL TRAINING:
The course provides students with basic knowledge of diagnostic and therapeutic modalities and skills needed to deal with cancer patient. New, highly specific modalities will be discussed including tumour markers. Basic instructions to establish diagnosis of a malignant disease and to propose its pertinent treatment.

Examination - oral form
Study branch: GENERAL MEDICINE

Course: PAEDIATRIC PROPEDEUTICS

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Syllabus: PAEDIATRIC PROPEDEUTICS


LECTURES:


CLINICAL TRAINING:


Examination - written part (test )
- oral part
Study branch: GENERAL MEDICINE

Course: PAEDIATRICS 1, 2, 3

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Syllabus: PAEDIATRICS 1, 2, 3


LECTURES:

**Pediatrics 1**

**Pediatrics 2**
Pediatrics 3

CLINICAL TRAINING:

Evaluation of subject

Examination - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: PSYCHIATRY 1

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**Syllabus:** PSYCHIATRY 1

Introduction to general psychiatry. Disturbances of perception attention, memory and thinking. Disturbances of intelligence, emotions, drives, will and action. Disturbances of personality.


**LIST OF LECTURES:**
Introduction to general psychiatry. Disturbances of perception attention, memory and thinking. Disturbances of intelligence, emotions, drives, will and action. Disturbances of personality.

**PRACTICAL TRAINING TOPICS:**
Basic terminology in psychiatry: mental illness, mental disorder, psychosis, non-psychotic disorder, personality disorder, drug addiction. Causative factors and classification of mental disorders. Psychiatric examination, psychiatric medical history. Assessment of cognitive function with screening instruments (MMSE, Clock test)


Credits (evaluation’s test in general psychiatry during practical training.)

**Evaluation of subject**
Syllabus: RADIOLOGY AND NUCLEAR MEDICINE

**RADIOLOGY - SYLLABUS OF LECTURES:**

**RADIOLOGY - SYLLABUS OF PRACTIC:**

**NUCLEARE MEDECINE - SYLLABUS OF LECTURES:**

**NUCLEARE MEDECINE - SYLLABUS OF PRACTICE:**

**Examination** - practical part (interpretation of results of diagnostic procedures)
- oral part
Study branch: GENERAL MEDICINE

Course: SOCIAL MEDICINE

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**Syllabus:** SOCIAL MEDICINE

- Social medicine - its origin, development, content and position within medical sciences.

**CONTENT OF LECTURE:**


**CONTENT OF SEMINARS:**

- Credit (active participation at all seminars)

**Examination** - oral form
Study branch: GENERAL MEDICINE

Course: DENTAL MEDICINE

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Syllabus: DENTAL MEDICINE


**Examination** - oral form
Study branch: GENERAL MEDICINE

Course: SPORTS MEDICINE

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Syllabus: SPORTS MEDICINE


LECTURES:

CLINICAL TRAINING:

Examination - written part (test)
Study branch: GENERAL MEDICINE

Course: DIPLOMA WORK 1

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Syllabus: DIPLOMA WORK 1

**Preparation period**
Topic and title of the written work.
Cooperation with the supervisor
Condition of the final work at the MFCU
Establishment of goals and schedule for individual periods of the work
Information sources
Sources and expert literature
Survey of chosen sources of medical information on the internet
Bibliographic references and citations
Presentation of authors
Examples of bibliographic references
Citations of bibliographic references

**Realization period**
Structure of written work
Sections of the main text
Creation of introduction and conclusion of written work
Systematization of parts of written work
Formal arrangement of written work

**Final period**
How to submit the written work
Opponent’s assessments
Progression for defense of the written work

**Evaluation of subject**
Study branch: GENERAL MEDICINE

SUBJECT: INTERNAL MEDICINE - summer practice

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Objective of the subject: INTERNAL MEDICINE - summer practice

The objective of the practice is to obtain practical knowledge at the internal department and check theoretical knowledge at the bedside as well as become acquainted with physicians’ activities, their work at the bedside and in internal medicine outpatient department of polyclinics.

Syllabus (practice description)

1. The student gets acquainted with the work of a house officer. Under the supervision of the head of the department or an authorised physician he works at the outpatient and inpatient departments and the inpatient work dominates.

2. The student writes complete medical documentation on admission and discharge of the patient (specialist history, he takes medical records of new patients and records of clinical course (decursus morbi) in patients who were assigned to him (4-5 patients). All work is performed under the supervision of the attending physician. The student takes part in ward rounds of the head of the department.

3. Work in laboratories is an integrated part of the practice. The student carries out basic examinations in assigned patients and assesses findings.

4. Students have two seminars - ECG and X-ray - where they under the supervision of a responsible physician interpret and evaluate ECG and X-ray images. They take part in seminars where they report on particular cases of disease.

5. The student takes active part in practical diagnostic and therapeutic procedures: application of injections, infusions, transfusions (under supervision of the physician), blood, urine, sputum and other material samplings. The student passively takes part in various punctures (sternal, thoracic, abdominal, hepatic) and in various sophisticated examinations (gastroscopy, bronchoscopy, laparoscopy).

6. In assigned patients the student independently carries out urine tests (chemical, biochemical and microscopic). Under the supervision of the chief laboratory worker the student familiarizes with examinations of blood picture, haemoglobin and blood smear.

7. The student familiarizes with the work at admission office and occasionally with work of general practitioner.

8. The student is obliged to perform 2 night shift duties.

9. The student takes active part in educational activities among patients, morning staff meetings and scientific seminars.

Credits
Objective of the subject: SURGERY - summer practice

The objective of the practice is to obtain practical knowledge for the work in appropriate care doing the fieldwork and to test theoretical knowledge from the field of study in solving various, particularly acute conditions in both outpatient and inpatient departments and in ICU.

Syllabus (practice description)

1. To approach professionally to diagnosis and differential diagnosis of emergency episodes, to recognize indications for the surgical treatment and invasive and non-invasive investigative procedures.
2. To familiarize with the principles of antisepsis and asepsis, with techniques and procedures of surgical treatment, preoperative surgical preparation, postoperative care and solution of postoperative complications.
3. In outpatient part the student becomes acquainted with investigative procedures and indications for admitting patients for surgical treatment, with particular documentation and extent of the interdisciplinary cooperation for the needs of diagnosis and treatment in surgical outpatients.
4. Working at the ward the student under the supervision of a specialist familiarizes with the principles of preparing documentation in inpatients, indication of preoperative examinations, preoperative preparation and postoperative care in surgical patients.
5. Under the supervision of a physician the student performs re-bandaging of surgical wounds, catheterises patients, inserts nasogastric probe, administers i.v. injections and infusions. He/she cooperates in administering blood transfusion, in correction of the nutritious deficiency and disorders of aqueous and electrolytic balance, evaluates laboratory findings in correlation with clinical condition.
6. The student participates in drainage and puncture of the bodily cavities, endoscopic examinations, X-ray examinations, invasive and non-invasive examinations of vascular cannulation for parenteral nutrition and monitoring of fundamental functions, he/she assesses X-ray pictures.
7. In the operating theatre the student acquires the principles of antisepsis and asepsis. He/she assists at common surgical procedures and anaesthesia. The student manages local and epidural anaesthesia, premedication, indications for endotracheal anaesthesia, possible complications connected with anaesthesia.
8. The practice includes consultation seminars on chosen topics. The student is active in using his/her knowledge in consultation on present clinical problems.
9. The student performs two night shift duties.
### Study branch: GENERAL MEDICINE

#### Course: DERMATOVENEROLOGY 1, 2

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#### Syllabus: DERMATOVENEROLOGY 1, 2

Physical and chemical damage of skin, Bacterial infections, Viral infections, Sexually transmitted infections, Fungal infections, Episoonosis (Cutaneous infestation), Eczema and dermatitis, Erythematous diseases, Erythematous squamous and papulopustular diseases, Blistering diseases, Pustular diseases, Urticaria, Exanthema medicamentosum (toxicodermia medicamentosa), Pruritus, Prurigo, Connective tissue disease, Disorders of vasculature, Disorders of hemostasis, Porphyrias, Disorders of melanin pigmentation, Granulomatous and necrobiotic diseases, Disorders of the sebaceous glands and disorders of oil glands, Disorders of the hair, Disorders of the nails, Disorders of lips and oral mucosa, Disorders of keratinisation, Nevi, Precancerous, Benign tumours of skin, Malignant tumours of skin, Pseudolymphomas and malignant lymphomas, Mastocytoses.

#### List of Lectures:

**Winter Semester**

- Erythematosquamous diseases - psoriasis, parapsoriasis, erythroderma, pityriasis rosea. Papulopustular diseases - lichen ruber, dyskeratosis follicularis.

**Summer Semester**


#### Clinical Training:


**Examination** - practical part, oral part
Study branch: GENERAL MEDICINE

Course: EPIDEMIOLOGY

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Syllabus: EPIDEMIOLOGY


LIST OF LECTURES:

PRACTICAL LESSONS:
Nosocomial infections and their prevention. Disinfection and sterilisation in health-care facilities and control of their efficacy. Analysis of chain of infections and possibility of control. Evaluation of efficacy of some vaccines. Vector-borne (blood-borne) infections and demonstration of the most important arthropod vectors. Information systems in epidemiology. Essential epidemiological features of some selected infectious diseases. Actual epidemiological situation in Slovakia and in the world. Epidemiological methods and their application in follow up of some chronic diseases (cancers, diabetes mellitus, etc.).

SEMINARS:
Analysis of published and well documented outbreaks of various infectious diseases, including nosocomial infections.

Examination - oral form
Study branch: GENERAL MEDICINE

Course: GYNAECOLOGY AND OBSTETRICS

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Syllabus: GYNAECOLOGY AND OBSTETRICS


LECTURES:


CLINICAL TRAINING:

**Evaluation of subject**
Study branch: GENERAL MEDICINE

Course: INFECTOLOGY

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Syllabus: INFECTOLOGY

Introduction and general consideration: The relationship of the pathogen and host, virulence factors, host defence mechanisms, epidemiology of infectious diseases, the course of infectious diseases. Fever, haematological, metabolic and biochemical changes during infectious. Changes in consciousness due to infection. Diagnosis, treatment, prevention, prophylaxis of infectious diseases. Anti-infective therapy.

Special section: viral, bacterial, chlamydial, rickettsial, mycotic and parasitic infections.


LECTURES:

CLINICAL TRAINING:

SEMINARS:

Examination - practical part (patient)
- written part (test)
- oral part
Study branch: GENERAL MEDICINE

Course: OPHTHALMOLOGY

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Syllabus: OPHTHALMOLOGY

To obtain basic knowledge of the embryology, anatomy, physiology and biochemistry of the eye. To get an overview of the diagnostics and therapy of the most common ophthalmic diseases.

LECTURES:


mixts. Damage of the eye caused by ionizing (X-Ray) and non-ionizing radiation (ultraviolet and infrared spectrum). First aid and professional ophthalmological aid.

**PRACTICAL LESSONS:**


Pedoophthalmology. Examination of the patients at the children’s department. Squint. Conservative and surgical treatment of the squint.

Patients examination. Direct and indirect ophthalmoscopy. Ophthalmic injuries. First aid in ophthalmology. Local treatment by drops and ointments. Demonstration of patient before and after various types of intraocular surgeries (cataract, retinal detachment, vitrectomy).

Patient examination. Recording of the patients history, examination of the eye, diagnosis. Discussion with an assistant. Classification.

**Examination**
Study branch: GENERAL MEDICINE

Course: OTORHINOLARYNGOLOGY

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Syllabus: OTORHINOLARYNGOLOGY


LECTURES:

CLINICAL TRAINING:

Examination - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: PSYCHIATRY 2

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Syllabus: PSYCHIATRY 2


LIST OF LECTURES:

PRACTICAL TRAINING:

Evaluation test during practical training

Examination - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: URGENT MEDICINE AND MEDICINE OF DISASTERS

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Syllabus: URGENT MEDICINE AND MEDICINE OF DISASTERS

1. Characteristics of the subject Emergency medicine and disaster medicine is a basic branch of medicine that focuses on providing urgent (immediate) health care to persons with acute health threats and/or life threats. This activity is carried out mainly in the first contact with the patient at the stage of pre-hospital care in the emergency medical service and emergency medical department. It has a major role in the activities necessary for the health and saving lives in the public interest as particular incidents, mass casualty, unilateral threats, military capabilities of state and so on.

2. The objective of the training course is to acquaint students with these issues and activities:
   a. Disruptions of vital functions - their characteristics, causes and interactions, diagnostic and treatment possibilities.
   b. Primal urgent procedures - immediate resuscitation, basic procedures and enhanced resuscitation, diagnosis of the causes of sudden circulatory arrest, therapies in the immediate resuscitation, securing a patent airway, artificial lung ventilation, circulation and renewal of its support, pharmacological support of immediate resuscitation.
   c. Follow up urgent procedures - oxygen, mechanical ventilation, defibrillation, cardioversion, pacing, peripheral vein, assistance in the implementation of central venous catheter via intraosseal access, assistance in puncture and thoracic drainage, the introduction of nasogastric probe, Blakemor-Sengstaken/Linton probe gastric lavage, bladder catheterization, the measures in convolution, sedation, analgesia, anesthesia, monitoring and management of documentation in the pre-hospital care.
   d. Postagressive syndrome - a response to the load, shock and its forms, prevention and treatment in pre-hospital stage.
   e. Urgent traumatology care for patients - the treatment of wounds, stopping bleeding, dressing technique, treatment and fixation of fractures and joint injuries, traumatic amputations and treatment amputates, fixation and immobilization techniques.
   f. Rescue and transport equipment, positioning of patients with sudden impairment of health.
   g. Nursery care of patients and injuries in the pre-hospital stage.
   h. Department of urgent income - income and continuous care of patients with regard to patients in critical condition. Stabilization of vital functions, participation in the work of a team of specialists. Knowledge of symptoms for the diagnosis, treatment and prognosis conditions requiring resuscitation and intensive therapy, ways to support vital functions and substitution of critical conditions. Psychological aspects of care for critically ill patients. The criteria for brain death, transplantation program.
   i. Medicine of disasters - disasters, mass casualty, wounded sorting, START, terrorism, biological agents annoying, annoying chemical substances, radiation protection, traumatology and emergency plan.

Examination
Study branch: GENERAL MEDICINE

Course: FAMILY MEDICINE

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Syllabus: FAMILY MEDICINE

Aim of the course: to induce the students into problems related to family doctor praxis

LECTURES:
Primary health care in Slovak Republic, capitation, insurances, role of the family doctor in Slovakia and in the world. Differential diagnosis of the abdominal pain, chest pain, anemias and endocrinopathies in family doctors praxis. Basic role of the family doctors from psychologist point of view.

PRACTICALS:
Problem oriented education: fever, diarrhoe, enlarged lymphnodes syndrome, icterus.

Evaluation of subject
Study branch: GENERAL MEDICINE

Course: FORENSIC MEDICINE

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**Syllabus: FORENSIC MEDICINE**


**LECTURES:**

**PRACTICAL LESSONS:**

Examination - oral form
Study branch: GENERAL MEDICINE

SUBJECT: GYNAECOLOGY AND OBSTETRICS - summer practice

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Objective of the subject: GYNAECOLOGY AND OBSTETRICS - summer practice

The main objective of students’ summer clinical practice is to acquire or deepen the bases of obstetrical and gynaecological examination and special examining methods together with diagnostic procedures in this field.

Syllabus (practice description)

1. During the practice at the gynaecological-obstetrical department the student will familiarize him/herself with work at particular units of the department. Under supervision of delegated experienced physicians the student will perform the activities of a junior house officer.

2. Delivery room: The student will familiarize him/herself with work policy under supervision of a physician in attendance. He/she participates in admitting women in labour, in performing obstetrical examination, in labour monitoring, in assisting at delivery, in suturing of obstetrical wounds. He/she performs at least two physiological deliveries under supervision of an obstetrician. He/she acquires the principles of obstetrical cleanliness (noninfections, asepses, antisepses, disinfections and sterilizations). At the lying-in department he/she observes postpartum course in puerperal women, their treatment, process of breast feeding, etc.

3. Operating theatre: At the ward the student attends to preoperative preparation and postoperative care of patients. In the operating theatre he/she assists at routine surgical interventions, establishes the principles of antisepsis and asepsis, assists at administering anaesthesia.

4. Inpatient department: At the department of pathological pregnancies he/she familiarize him/herself with cases of risk and pathological pregnancy, diagnostics and treatment of such cases. At the gynaecological department and a gynaecological day surgery room he/she observes diagnostics and treatment of gynaecological diseases and participates in performing minor interventions (punctures, curettages).

5. Outpatient department: At the surgery the student shall learn methods and techniques of gynaecological examination and minor gynaecological affections. Concerning oncological prevention he/she shall familiarize him/herself with the methods of early diagnostics of carcinomas (cytology, colonoscopy, breast examination), with description of health education and methods of its performance. At the antenatal centre he/she shall acquire the principles of prevention in obstetrics, obstetrical examination, occupational risks in the course of pregnancy, and he/she familiarizes him/herself with hospitalization requirement in threatened pregnancy.

6. Counselling: The student participates in performing specialised counselling (for pathological pregnancy, for sterile couples, contraception and oncogynaecological counselling, etc.).

7. Specialised units of the department: The student familiarizes him/herself with the principles of sonographic and X-ray examination in gynaecology and obstetrics, with special laboratory methods, etc. He/she participates in meetings and professional seminars. Appropriate division and rotation at particular units will be performed by the head of the practice in collaboration with the head of the department or his deputy.

8. The student shall perform 2 night shift duties.

Credits
Objective of the subject: PAEDIATRICS - summer practice

The objective of the summer clinical practice is to gain practical knowledge necessary for work and performance of a doctor in the field of primary healthcare and to check theoretical knowledge of the subject field while solving problems connected with the work of a doctor - paediatrician in the outpatient and inpatient departments.

Syllabus (practice description)

1. The student works at the bedside under the house officer’s supervision, examines the patients, takes medical records, drafts diagnostic and examination methods, follows administrative procedures and keeps medical documentation. The student familiarizes him/herself with the forms and manages administrative procedures in admitting and discharging patients.

2. The student regularly takes part in ward rounds, in cooperation with the house officer monitors the progress of the disease, makes the diagnosis and participates in the therapy.

3. During this practice the student masters venipuncture, administration of injection treatment, inserting a gastrostomy probe, bladder catheterisation, taking biomaterial for laboratory tests (blood, urine, stool and puncture samples). The student acquires all diagnostic and administrative procedures connected with blood transfusion administration.

4. The student attends special examinations – ultrasound screening, special X-ray examinations (cystography, i.v. urography, etc.), endoscopic examination.

5. During their work at the children’s outpatient department the student becomes acquainted with the system of dispensation, keeping medical documentation and duties of a paediatrician-specialist related to health insurance companies requirements.

6. The student performs 1 night shift duty.

7. Preparation of a seminar - case reports or a review from specialist literature.

Credits
Study branch: GENERAL MEDICINE

Course: GYNAECOLOGY AND OBSTETRICS

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Syllabus: GYNAECOLOGY AND OBSTETRICS

Enlargement of the basics gynaecology and obstetrics and the practical procedures in gynecology and obstetrics.

Students are assigned to various parts of the department, where they work as junior registrars under the supervision of senior lecturers and associate professors. They improve themselves in basic examination methods, diagnosis, differential diagnosis and conservative and operative therapy options in obstetrics and gynaecology and in some special diagnostic procedures including X-ray examination, ultrasonography, Doppler sonography, amnioscopy, amniocentesis, endoscopic diagnostic procedures, etc. Students assists with gynecological and obstetrical operations. In special outpatient departments they acquaint themselves with special branches and aspects of obstetrics and gynaecology.

Evaluation of subject

State examination - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: INTERNAL MEDICINE

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Syllabus: INTERNAL MEDICINE

CLINICAL TRAINING:

SEMINARS:

Evaluation of subject

State examination - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: SURGERY

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Syllabus: SURGERY

House officer’s in general and paediatric surgery, urology, neurosurgery, ortho-paedics and plastic surgery.

SEMINARS:

Evaluation of subject

State examination - practical part
- oral part
Study branch: GENERAL MEDICINE

Course: PAEDIATRICS

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Syllabus: PAEDIATRICS

CLINICAL TRAINING:


SEMINARS:


Evaluation of subject

State examination - practical part
- oral exam
COMPULSORY OPTIONAL SUBJECTS

Study branch: GENERAL MEDICINE

Course: CHILD AND ADOLESCENT PSYCHIATRY

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Syllabus: CHILD AND ADOLESCENT PSYCHIATRY

Global disorders of development - quantitatively.
Global disorders - qualitatively (developmental crisis, development modified by illness, sign of illness in developmental stages).
Syndromology in child and adolescent psychiatry.
Partial developmental disorders with the beginning usually in childhood and adolescence (hyperkinetic syndromes, conduct disorders, emotional disorders, disorders of isolation, disorders in social relationships, tics and others).
Partial developmental disorders such as behavioural syndromes associated with physiological disorders and somatic factors in childhood and adolescence (disorders of eating, disorders of sleeping, sexual dysfunction).
Specific developmental disorders (reading disorder, speech disorder, language motorial function, pervasive disorders).
Mental retardation.
Abnormal psychical reactions and neurosis in childhood and adolescence.
Psychosis and organic mental disorders in childhood and adolescence.
Dependence on psychoactive substances at children and adolescents.
Treatment in paediatric psychiatry.
Ethics and paediatric psychiatry.
Ethics, law and abuse of psychiatry.

Examination
Study branch: GENERAL MEDICINE

Course: DRUGS AND DRUG ABUSE

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Syllabus: DRUGS AND DRUG ABUSE

Drug addiction, basic terms, contemporary drug scene, dictionary of the contemporary generation of the addicted.
Alcoholism, its detection and diagnostics. - Somatic complication of alcoholism, alcoholic psychoses. - Treatment of the alcoholism and its complications. - Opiates, addiction to opiates, complication of the addiction to opiates, treatment of the addiction to opiates.
Cannabinoids, dangers and complications and their use. - Psychostimulation, dependence on psychostimulus, complication, diagnostics and treatment.
Hallucinogens, dangers and complications of their taking. Addiction to drugs, complications, diagnostics and treatment.

Examination
Study branch: GENERAL MEDICINE

Course GYNAECOLOGICAL ONCOLOGY

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Syllabus: GYNAECOLOGICAL ONCOLOGY

PRACTICAL EDUCATION:
Introduction to the subject (oncologic programme, fight against cancer, dispensarization, reporting of malignant tumours in oncogynaecology).
Non-invasive pre-bioptic investigation methods - morphologic, endoscopic and imaging parts.
Invasive pre-bioptic investigation methods.

LECTURES:
Tumours of the cervix of the uterus.
Tumours of the body of the uterus.
Tumours of ovaries.
1st RTG (neuroradiology).
Tumours of the breast.
Other tumours.

Examination
Sylabus: CLINICAL BIOCHEMISTRY


Use of plasmatic enzymes in diagnostics. Examination of basic plasmatic enzymes and interpretation of changes in their activities.

Laboratory examination of gastrointestinal tract diseases. Examination of the function of the stomach, intestine and pancreas. Biochemical tests of malabsorption. Examination of pancreatic juice. Nonprimary tests of the pancreas function. Laboratory diagnostics and following the course of the acute pancreatitis.


Laboratory examination of heart diseases. Biochemical tests for examination the state of myocardium. Laboratory value development of different cardiac diseases - acute infarction of myocardium, dangerous factors of ICHS, damage of myocardial at operation of the heart or at invasive examination.

Clinical biochemistry inflammation processes. Examination of recreants’ spectrum of the acute phase. Tests to examine rheumatic diseases (activity of the process, antibacterial antibodies, auto-immune anti-bodies, rheumatoid factors). Complement. Immunoglobulines. Tests for showing the presence of the antibodies of HIV.

Disorders of acidobasic balance and their examination. Metabolic and respiratory disorders. Mixed disorders of ABR.

Laboratory examinations in oncology. The functions of laboratory examination of the oncological patients. Tumour markers, characteristics, the most commonly used extracellular tumor markers. Set of tests to distinguish the tumorous invasion of the liver and skeleton. Set of tests to follow the unwanted effects of therapy.

Examination
Study branch: GENERAL MEDICINE

Course: CLINICAL EPIDEMIOLOGY

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Syllabus: CLINICAL EPIDEMIOLOGY

Clinical epidemiology characteristics, meaning, aims.
Diagnostic tests. Screening in clinical practice.
Natural history and prognosis of the disease.
Clinical decision: effective treatment.
Description and recognition of the aetiology of the disease.
Randomised clinical studies. Metaanalysis.
Bias and confounding factors.
Study and interpretation of data from literature.

Examination
Study branch: GENERAL MEDICINE

Course: CLINICAL PHARMACOLOGY

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Sylabus: CLINICAL PHARMACOLOGY

Clinical pharmacology - function, aims, medical, social and economical aspects, methods of evaluation of drugs, SLP, SKP, SVP, national drug policy, categorisation of drugs.

Drug therapeutic plan (setting aims, choosing drugs, administering of drugs, directions for use, duration of treatment, combination with other drugs, giving information to the patients, monitory of therapy).

Pharmacocinetical principles of dosing of drugs.

Determination of drugs’ concentration (demonstration of HPLC’ establishment).

Drug therapy during pregnancy and at children.

Drug therapy of pain.

Case: Analgetical nephropatia.

Drug therapy of hypertension.

Drug therapy of bronchial asthma.

Case: Chronical obstructive disease of lungs.

Bronchial asthma.

Damage of liver by drugs.

New trends in anti-microbial therapy.

Case: Infection of urinary tracts.

Drug therapy of myocardial infarction.

Case: Ischemic disease of heart.

Examination
Syllabus: CLINICAL GENETICS AND MOLECULAR BIOLOGY

Syllabus: CLINICAL IMMUNOLOGY


Examination
Study branch: GENERAL MEDICINE

Course: CLINICAL MICROBIOLOGY

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Sylabus: CLINICAL MICROBIOLOGY

LECTURES:
New aspects of pathogenesis microbial diseases.
Current problems in antimicrobial chemotherapy from the point of view of a clinical microbiologist.
Special aspects of the ethiology of microbial infectious diseases and diagnostics at children.
Infectious diseases in immunodeficiented patients - ethiology and diagnostics.

Seminars:
New possibilities of the rapid diagnosis of microbial diseases at outpatients departments and in hospitals.
Monitoring and evaluation of the resistance development to antimicrobial drugs. Antibiotic resistance surveys and antibiotic policy.
Sampling of materials and interpretation of the laboratory microbiological examinations at system infectious diseases.

Examination
Study branch: GENERAL MEDICINE

Course: CLINICAL PATHOLOGY

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Syllabus: CLINICAL PATHOLOGY

Introduction to clinical pathology - problems of technics and methods.
The use of immunohistochemistry in diagnostics of tumors.
Orthology of the female prostate - functional and structural aspects.
Clinical and pathological aspects of the female prostate.
Contemporary possibilities of the diagnostics of neuromuscular diseases.
Osteopathology - contemporary possibilities in clinical pathological diagnostics.
Vasculitis - contemporary possibilities in clinical pathological diagnostics.
Congenital heart diseases.
Gestational trophoblastic disease - immunohistochemical possibilities in diagnostics.

Examination
Study branch: GENERAL MEDICINE

Course: PREVENTIVE AND CLINICAL GENERAL ANGIOLOGY

Class semester hours of lectures/practical lessons examination/es credits
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Sylabus: PREVENTIVE AND CLINICAL GENERAL ANGIOLOGY

Angiology as the most important and needed specialized branch in the third millennium. Epidemiology of vascular diseases.
Preventive and clinical aspects of angio-organical ischemic syndromes (angio-cardial ischemic syndrome, angio-cerebral ischemic syndrome, angio-extremital ischemic syndrome, angio-renal ischemic syndrome, angio-gastrointestinal ischemic syndrome, angio-ocular ischemic syndrome etc.).
Risk factors of vascular diseases.
Atherosclerosis as the most frequent, but not the only obliterative artery disease, differential diagnosis of stenostional and non-stenostional artery diseases.
Atherosclerosis and diabetic angiopathy - preventive and clinical aspects.
Primary and secondary vasculitides, compressive syndromes and other obliterative organic diseases of arteries. Microcirculatology.
Thromboembolic disease. Preventive flebology.
Chronic vein disease of the lower limbs - Hawaii CEAP classification.
Preventive lymphology. Differential diagnosis of edemic status and lymphedem.

Examination
Study branch: GENERAL MEDICINE

Course: PRINCIPLES OF IMAGING METHODS IN MEDICINE

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Syllabus: PRINCIPLES OF IMAGING METHODS IN MEDICINE

Thermometry and thermography - infrared radiation, liquid crystals, microwaves, image creation and their use.
Optical imaging methods - microscopy, endoscopy - principles of image creation, kinds of equipment.
X-ray imaging methods - sources, interactions with medium, detection, image creation and imaging systems, computed tomography, therapeutic use, protection against radiation.
Imaging methods using radionuclides - sources, interactions with medium, detection, image creation and imaging systems, PET, SPECT, preparation of radionuclides, tracing, therapeutic use, protection against radiation.
Ultrasound imaging methods - sources, interactions with medium detection, image creation and imaging systems, Doppler systems, therapeutics use.
Magnetic resonance imaging - principle, image creation and imaging systems, use.

Examination
Study branch: GENERAL MEDICINE

Course: PSYCHOTHERAPY

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Syllabus: PSYCHOTHERAPY

General problems of psychotherapy, mechanics of psychotherapy, indications, contraindications, collateral effects of psychotherapy, conditions of psychotherapy.
Psychotherapeutic methods and schools. Rational psychotherapy, principles, possibilities and its putting into practice.
Psychoanalytic and dynamic psychotherapy, principles, possibilities of putting into practice. Relaxation techniques, principles, methods, possibilities of putting into practice.
Suggestive psychotherapy, principles, methods and possibilities of putting into practice.
Behaviour psychotherapy, methods, principles, possibilities of putting into practice. Psychotherapy of personality disorders and psychoreactiv states, principles, methods, possibilities of putting into practice.
Psychotherapy of drug addiction, principles, methods, possibilities of putting into practice.
Psychotherapy of psychosis, principles, methods, possibilities of putting into practice.

Examination
Study branch: GENERAL MEDICINE

Course: TROPICAL PARASITOLOGY

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Sylabus: TROPICAL PARASITOLOGY


Sarcomastigophora - Sarcodina - Amoeba - Entamoeba histolytica - amoebic dysentery, Naegleria fowleri - Primary amoebic meningoencephalitis, Acanthamoeba castellanii - granulomatous amoebic encephalitis.


Plasmodium vivax, P.ovale - benign tertian malaria, Plasmodium malaria, benign four-days’ malaria, Plasmodium falciparum - malignant tertian malaria.


Opportunistic parasitic diseases. Toxoplasma gondii - toxoplasmosis, Cryptosporidium species - cryptosporidiosis, Pneumocystis carinii (buttons) - pneumocystosis, Strongyloides stercoralis - strongyloidosis etc.

Examination
**Study branch: GENERAL MEDICINE**

**COURSE: PRINCIPLES OF HEALTH**

<table>
<thead>
<tr>
<th>Class</th>
<th>semester</th>
<th>hours of lectures/practical lessons</th>
<th>examination/es</th>
<th>credits</th>
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**Syllabus:** PRINCIPLES OF HEALTH

**OBJECTIVE:**
Teach students to be well informed about problems and solutions of eHealth (electronization and information of healthcare).

**TOPICS:**
1. a 2. week  
Lecture: Current and final state of eHealth  
Sem.: Overview of current eHealth in EU
2. a 4. week  
Lecture: Health documentation in electronic form, electronic health records  
Sem.: Analysis of using documentation in electronic form, electronic health records proposals
3. a 6. week  
Lecture: ICT standards in healthcare and health terminology standards  
Sem.: Models of application of ICT standards in healthcare
4. a 8. week  
Lecture: Interoperability of health information systems (communication, common repository)  
Sem.: Examples of transmission of data among various information systems
5. a 10. week  
Lecture: Legislation, safety and confidence in eHealth  
Sem.: Usecases of healthcare situations from point of view safety and confidence
6. a 12. week  
Lecture: Electronic health education (eLearning in healthcare)  
Sem.: Examples of application of eLearning in healthcare

**Examination**