Study branch: DENTISTRY
Course: ANATOMY 1, 2

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<tr>
<th>Class</th>
<th>semester</th>
<th>hours of lectures/practical lessons</th>
<th>examination/es</th>
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<td>summer</td>
<td>48/60</td>
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Syllabus: ANATOMY 1, 2

LECTURES:
winter semester

summer semester

PRACTICAL LESSONS:
winter semester

summer semester
Dissection (abdomen and thorax)


PRACTICAL LESSONS:


Examination - practical part
- oral part
Study branch: DENTISTRY

Course: MEDICAL BIOPHYSICS

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**Syllabus:** MEDICAL BIOPHYSICS

Status and a significance of medical physics in the medical study’s curriculum. The integrated biological system (IBS) definition. The elements of facial anatomy from the point of view both of physical definition and a function of IBS. The biophysical analysis of the physical factors’ interactions (PhF) with IBS in stomatological diagnostics and therapy. The regulation principles of the cardiovascular, intestinal, respiration and thermoregulation system from the point of view of medical biophysics and stomatology’s needs. The electrical properties both of the human tissues and organs. Stomatology technique as a part of diagnostics and therapy from the point of view of medical physics. The dental prosthetics in the substitute medicine from the point of view of IBS. The biophysical (structural and functional) requirements for setting-up of the artificial dental prosthetics. The specific anaesthetics, laser technique, operating lights, photocorative lamps. The physical principles of the basic diagnostic methods used in general medicine. The physical and radiobiological view both on the stomatological and radiological techniques. The dosimetry’s elements both of living and working environment. The bases of image technique. The protection both of a doctor and a patient against harmful physical factors in stomatological practice. Safety aids, legislative standards. An effect of biorhythms as IBS biological oscillations on therapy. The biophysics both of stress and psychotherapy.

**LECTURES:**
1. Status and a significance of medical physics in the medical study’s curriculum.
2. The elements of functional facial anatomy from the point of view both of physical definition and a function of IBS.
3. The biophysical aspects both of invasive and non-invasive stomatological diagnostics.
4. The biophysical aspects both of invasive and non-invasive stomatological therapy.
5. The biophysical principles of the functional system’s regulation (the bases of the biocybernetical principles of the IBS control).
6. The mechanical properties both of the biological tissues and dental prosthetics.
7. The electrical properties of the biological tissue.
8. The principles of the imaging technique applied in stomatological practice.
9. The dosimetry used in stomatological practice.
11. The biophysics of the ionizing radiation.
12. The biophysics both of stress and psychotherapy.

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

**Examination** - oral form, defence of semestral project.
Study branch: DENTISTRY

Course: BIOLOGY AND HUMAN GENETICS 1, 2

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<th>Class</th>
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Syllabus: BIOLOGY AND HUMAN GENETICS 1, 2


LIST OF LECTURES:

winter semester

summer semester

PRACTICAL LESSONS:

winter semester

summer semester

Examination - oral form
Study branch: DENTISTRY

Course: DENTAL MATERIALS AND TECHNOLOGIES 1, 2, 3

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<th>Class</th>
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<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
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<td>winter</td>
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Syllabus: DENTAL MATERIALS AND TECHNOLOGIES 1, 2, 3

LECTURES:
1<sup>st</sup> class, summer semester
Classification of dental materials.
Dental materials used in prosthetic and dental laboratory.
Dental metals and alloys. Dental resins and polymers. Dental ceramic materials. Impression materials.

2<sup>nd</sup> class, winter semester
Dental materials used in restorative dentistry.

3<sup>rd</sup> class, winter semester
Materials in stomatological surgery. Dental materials in periodontology.

CLINICAL PRACTICALS:
Demonstration of dental materials, preparations, mixing, manipulation, handling, storing.

Evaluation of subject
Examination - 3<sup>rd</sup> class, - practical part
- oral part

LECTURES:

1st class, summer semester
SEMINARS:

1st class, winter semester

2nd class, winter semester

Evaluation of subject
Examination - practical part (test and practical task)
- oral part
Study branch: DENTISTRY

Course: HISTOLOGY AND EMBRYOLOGY 1, 2

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Syllabus: HISTOLOGY AND EMBRYOLOGY 1, 2

Histology as the science. Methods used in the study of cells and tissues (light and electron microscopy, histochemical and immunohistochemical methods, cell fractionation, in vitro hybridisation, autoradiography, freeze-fracturing).


Histophysiology of the eye and ear. Microscopic structure of the skin.


LECTURES:
1st class, summer semester


PRACTICAL LESSONS:

2nd class, winter semester

Evaluation of subject

Examination - practical part
- oral part
Study branch: DENTISTRY
Course: MEDICAL CHEMISTRY FOR DENTISTRY

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Syllabus: MEDICAL CHEMISTRY FOR DENTISTRY


LECTURES:

PRACTICAL LESSONS:
ap) seminars:

b) practical lessons:

Examination - written form
### Syllabus: LATIN MEDICAL TERMINOLOGY


### LIST OF LECTURES:


### SEMINARS:


**Examination** - written form
Study branch: DENTISTRY
Course: PRECLINICAL DENTISTRY 1

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Syllabus: PRECLINICAL DENTISTRY 1

**Anatomy of facial part of head:** lower and upper jaw, temporo-mandibular joint, facial muscles of jaw movements, facial nerves, blood vessels, morphology of teeth (milk and permanent).

**Prosthetic dentistry:** instruments, impression-materials, metals, resins, model materials, form-materials (putty), waxes, ceramic-materials, resin crown, metal crown, veneer-metal crown, post-crown, inlay, fixed-bridge, grinding teeth for artificial crowns.

**LECTURES:**

**PRACTICAL EXERCISES:**
Modelatio of teeth - incisors, canines, premolars and molars, from dark wax prisms. Identification of extracted teeth. Preparation of teeth for artificial treated crowns. Grinding of crown of teeth to round and 90° overjet. Manufacturing of resin crown: impression technic, casting of impression with the plaster, on models right way of modelation of artificial crown from the resin, polymerisation, grinding and shining of resin crown. Manufacturing of metal crown: impression, casting plaster model, modelation crown from the inlay wax, making of casting form, to cast metal crown, finising of surface of metal artificial crown. Demonstration of manufacturing veneer metal crown and bridges, metal ceramic.

Evaluation of subject
Study branch: **DENTISTRY**

Course: **PRECLINICAL DENTISTRY 2**

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**Syllabus:** **PRECLINICAL DENTISTRY 2**

Dentures classification (distribution) depend of bearing of mastication-power. Compiled removable denture, important areas into a mouth, from the prosthetic view, intermaxillary relationship, arrangement of teeth, polymerisation.

Partial removable denture, parallelogrameter, analyse of model, constructed units of partial removable denture.

**Stomatological radiology:** equipments, work with X-ray film, mistakes during produce of X-ray pictures, radiology work-place (department), description radiograms, protection of X-rays.

**Orthodontic stomatology:** introduction into subject, terminology, anomalie of teeth, jaws and intermaxillary relationships, appliants of treatment.

**Periodontology:** introduction, terminology, instruments, scaling of calculus.

**LECTURES:**


Basic of periodontology. Based terminology of gingiva and periodontium diseases, Dental cal-culus, etiology, typesof calculus. Instruments and way of scaling of calculus.

**PRACTICAL EXERCISES:**


Orthodontic stomatology classification of defects of teeth and jaws. Types of appliants for treatment for base defects. Units of appliants, demonstration of appliants, work with wire.

Instruments used in periodontal stomatology treatment, terminology. Scaling of calculus. Place of radiology for diagnostic of stomatology deesses. Description of X-ray pictures, intraoral and extraoral projections.

**Evaluation of subject**
Study branch: DENTISTRY

Course: FIRST AID

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Syllabus: FIRST AID


LECTURES:
   - The Chain of Survival Basic life functions. Respiratory system, heart and circulatory system, blood (basics of functional anatomy and physiology) - attitude to first aid. Transport of oxygen.
3. General principles of first aid provision (classification of sudden incidents, situation assessment, activation of emergency system, safety, treatment, handover)
6. Respiratory malfunctions, asphyxia and first aid. Spasmatic conditions and first aid
7. Unconsciousness, intoxications and first aid.
8. Injuries, bleeding from wounds (physical and chemical impacts, bleeding stoppage, wound treatment). Shock - pathophysiology, causes, symptoms, first aid provision

INTERNSHIPS - PRACTICALS:
- Diagnostics of basic life functions.
- Essential life-saving actions
- Cardiopulmonary resuscitation of adults and children - BLS (basic life support) - training on the mankin.
- Automatic external defibrilation
- First aid by selected sudden incidents (Acute Coronary Syndrome - heart attack, Cerebro-vascular accident, traffic accidents and others, unconsciousness, asphyxia, respiratory obstruction and cardiovascular obstruction, major bleeding, spasmatic conditions
- Prevention of sudden incidents,

Evaluation of subject
Study branch: DENTISTRY

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: DENTISTRY

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**
Grammar: A real condition. An unreal condition. Numerals „jedni, jedny, dvaja, obaja, obidva, traja“. Relative clauses with „ktorý“. Indirect speech /statements, questions, commands/.


**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: DENTISTRY

Course: PRECLINICAL DENTISTRY  3

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Syllabus: PRECLINICAL DENTISTRY  3


**Stomatological radiology**: equipments, work with X-ray film, mistakes during produce of X-ray pictures, basic projections, radiology workplace (department), description radiograms, protection of X-rays.

**LECTURES** :

**PRACTICAL EXERCISES** :

**Evaluation of subject**
**Study branch: DENTISTRY**

**Course: PRECLINICAL DENTISTRY 4**

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**Syllabus: PRECLINICAL DENTISTRY 4**

- **Surgery of stomatology**: instruments, sterilisation, disinfection, anaesthesia, way of extraction of teeth, sewing of wounds, stitch and surgical knots.
- **Operative dentistry**: Prevention, hygiene, examination of patient, documentation..

**LECTURES**:

**PRACTICAL EXERCISES**:
Extraction of teeth on phantom heads extraction simulator. Training of anesthesia. Instruments used in surgery. Training work with forceps and lewers. Suture, surgical knots - training. Examination of patient. Documentation. Simulation of treatment of phantom head fixed at chair on dental unit. Work in pair - doctor and nours. All types of learned works in the last. Preparation of all Black types of cavity, filling with permanent materials, grinding of frontal and lateral teeth, fix the artificial crowns, Partial removable and complete removable dentures.

**Examination**
- practical part
- oral part
Study branch: DENTISTRY

Course: TOPOGRAPHICAL ANATOMY OF THE HEAD

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Syllabus: TOPOGRAPHICAL ANATOMY OF THE HEAD


LECTURES:
- Topographic anatomy of the head and neck - introduction. Topographic regions of the head.
- Sensory and motor innervation of the head and neck.
- Introduction to the topographical anatomy of maxillofacial region.

PRACTICAL CLASSES:
- Topographic regions of the head I /dissection - superficial structures/
- Topographic regions of the head II /dissection - deep structures/
- Topographic regions of the neck /dissection/

Cavitas oris: vestibulum oris, lingua, soft palate, hard palate, floor of the mouth, swallowing, radiographic correlation. Cavitas oris: topographic anatomy of teeth, caries, gangrene, tooth pulp inflammation, local spread of the dentogenic inflammations, radiographic correlation. Regional and distant spread of the dentogenic inflammations, regio submentalis, regio submandibularis, regio parapharyngica, trigonum caroticum, radiographic correlation.

Examination
Study branch: DENTISTRY
Course: MEDICAL BIOCHEMISTRY FOR DENTISTRY 1, 2

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Syllabus: MEDICAL BIOCHEMISTRY FOR DENTISTRY 1, 2


LECTURES:
winter semester

summer semester

PRACTICAL EXERCISES AND SEMINARS:
winter semester

summer semester

Examination: - written part
- oral part
Study branch: DENTISTRY

Course: IMMUNOLOGY

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Syllabus: IMMUNOLOGY


PRACTICAL CLASSES:

Examination - oral form
Study branch: DENTISTRY

Course: PATHOLOGICAL ANATOMY 1

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Syllabus: PATHOLOGICAL ANATOMY 1


PROGRAM OF LECTURES:


HISTOPATHOLOGY PRACTICALS:


Evaluation of subject

Study branch: DENTISTRY

Course: PATHOLOGICAL PHYSIOLOGY 1, 2

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Syllabus of subject: PATHOLOGICAL PHYSIOLOGY 1, 2


LECTURES:

winter semester

summer semester

SEMINARS AND PRACTICAL LESSONS:

winter semester

summer semester
- oral part
Study branch: DENTISTRY

Course: MEDICAL MICROBIOLOGY 1

Syllabus: MEDICAL MICROBIOLOGY 1


(Note: Lectures and practicals include a part of microbiology, the rest is left for individual study.)

LIST OF LECTURES:


SYLLABUS OF PRACTICALS:


Evaluation of subject

Study branch: DENTISTRY

Course: MEDICAL MICROBIOLOGY 2

Syllabus: MEDICAL MICROBIOLOGY 2


LIST OF LECTURES:

SYLLABUS OF PRACTICALS:
Disinfection, sterilisation and methods of their control in dentistry. Normal oral flora (examination by microscopy and cultivation).
Detection of dental plaque. Oral infections. Infections of the respiratory tract, infections of the skin and soft tissues, infections of the genitourinary tract, infections of the fetus and the newborn, infections of the central nervous system, nosocomial infections related to the head and neck surgery, infections of the gastrointestinal tract, hepatitis, infections in dental office, odontogenic purulent diseases, endocarditis, sepsis of odontological etiology - case study.

Student can take examination from microbiology only after active participation at all practical lessons and passing both written tests.

Examination - oral form

Study branch: DENTISTRY

Course: MEDICAL ETHICS

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Syllabus: MEDICAL ETHICS


LECTURES:
Introduction into the medical ethics. The basic terminology and definitions. 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). Tolerance and some other parts of life in democratic society from medicoethical point of view.

SEMINARS:
The basic principles of medical ethics. 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: DENTISTRY
Course: PHARMACOLOGY 1, 2

Syllabus: PHARMACOLOGY 1, 2


LECTURES:
winter semester

PRACTICAL LESSONS:
winter semester


LECTURES:
summer semester

PRACTICAL LESSONS:
summer semester

Examination: - written part (test) - oral part
Study branch: DENTISTRY

Course: PATHOLOGICAL ANATOMY 2

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<th>Class</th>
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<th>Hours of Lectures/Practical Lessons</th>
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Syllabus: PATHOLOGICAL ANATOMY 2

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


PROGRAM OF LECTURES:


HISTOPATHOLOGY PRACTICALS


Practical part of examination - description of gross finding at autopsy - histopathological diagnosis of a slide

Written and oral part of examination (test)

Study branch: DENTISTRY

Course: MEDICAL PSYCHOLOGY AND COMMUNICATION WITH THE PATIENTS

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Syllabus: MEDICAL PSYCHOLOGY AND COMMUNICATION WITH THE 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.

Examination - oral form
Study branch: DENTISTRY

Course: INTERNAL PROPEDEUTICS 1, 2

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Syllabus: INTERNAL PROPEDEUTICS 1, 2

Study of basic theoretical knowledge and practical skills during the physical examination of the patient. Laboratory and other examinations used in the internal medicine.

LECTURES:

winter semester

summer semester

CLINICAL TRAININGS:

winter semester

summer semester

Conditions for receiving credits:
100% attendance on clinical training
70% correct answers in multiple choice test

Examination - oral form
Study branch: DENTISTRY

Course: SURGICAL PROPEDEUTICS 1, 2

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Syllabus: SURGICAL PROPEDEUTICS 1, 2

Basics of general surgery, examination methods, preoperative preparation and postoperative. Basic surgical procedures and techniques, pharmacotherapy, basics of anaesthesiology, intensive care, plastic surgery and oncosurgery.

LECTURES:

PRACTICAL LESSONS:

Evaluation of subject
Study branch: DENTISTRY

Course: PREVENTIVE DENTISTRY  1, 2

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Syllabus: PREVENTIVE DENTISTRY  1, 2


LECTURES:
3rd class, summer semester


Hyperaesthesia of dentin. Iatrogenous marginal irritations.

6th class, winter semester

CLINICAL LESSONS / PRACTICALS /:
3rd class, summer semester

6th class, winter semester

Evaluation of subject
Examination - 6th class - practical part
- oral part
Study branch: DENTISTRY
Course: RESTORATIVE DENTISTRY 1, 2, AND ENDODONTICS 1, 2

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Syllabus: RESTORATIVE DENTISTRY 1, 2, AND ENDODONTICS 1, 2


LECTURES:
3rd class, summer semester

4th class, winter semester

4th class, summer semester

CLINICAL TRAINING:
3rd class, summer semester

4th class, winter semester

4th class, summer semester
During clinical practicals fulfilling of all described restorative interventions and endodontical measures in clinical patients. Diagnosis and differential diagnosis of pulp and periodontium diseases. Systematic care in restorative stomatology. Diagnosis and treatment plan of dental septic focci. Fulfilling of all described restorative and operative interventions, cavity filling and endodontical procedures.

5th class winter semester
Fulfilling of all described restorative and operative interventions, cavity filling and endodontical procedures.

5th class summer semester
Fulfilling of all described restorative and operative interventions, cavity filling and endodontical procedures.

Evaluation of subject
Examination: 4th class, - practical part
- oral part
Study branch: DENTISTRY

Course: ORAL SURGERY 1

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Syllabus: ORAL SURGERY 1

History of the oral and maxillofacial (OMF) surgery, interdisciplinary approach within the dentistry and other medical disciplines. Evaluation of patient with OMF disorder - anamnesis, clinical examination, other diagnostic methods. Principles of the radiology - intraoral x-ray, panoramic techniques (panoramix a OPG), skull projections (standard and special projections, native and contrast methods). Antisepsis, asepsis, disinfection and sterilization - specifics for stomatosurgery. Viral diseases (AIDS, hepatitis and orofacial region). Anaesthesia in OMF surgery - types of the anaesthesia, local anaesthetic agents. Local anaesthesia in the mandible - for. mandibulae, for. mentale, infiltration and the trunc anaesthesia. Local anaesthesia in the maxilla - infiltration, tuber maxillae, for. infraorbitale, for. palatinum maj., for. incisivum, the trunc anaesthesia of n. maxillaris. Complications of injection anaesthesia - local (hematoma, damage of muscle and nerve, Williger’s necrosis) and general (syncope, toxic and allergic reaction and the treatment). Instruments for extraction - division. Forceps - types, technique of the extraction with forceps generally. Elevators for extraction - physical principles of wedge and lever. Bein, Schlemmer, Leclus and other.

Indications and contraindications of the extractions, tooth extraction in summary. Local complications of extraction - fracture of the tooth (root), fracture of the alveolar bone and jaws, luxation of the mandible, damage of the soft tissues. Haemorrhage after the extraction, alveolitis (dry socket and alveolitis purulenta). General complications of the extraction (syncope, ingestion and aspiration of the tooth, bacteriemia).

LECTURES:
1. Oral and maxillofacial (OMF) surgery, interdisciplinary approach
2. Evaluation of patient - anamnesis and clinical examination
3. Principles of radiology - intraoral x-ray, panoramic techniques, skull projections
4. Antisepsis, asepsis, disinfection and sterilisation. AIDS and orofacial region
5. Anaesthesia in OMF surgery - types of the anaesthesia, local anaesthetic agents
6. Local anaesthesia in mandible - for.mandibulae, for.mentale, infiltration, trunc anaesthesia
7. Local anaesthesia in the maxilla - infiltration, tuber maxillae, for. infraorbitale, for. palatinum maj., for. incisivum, trunc anaesthesia of the n. maxillaris
8. Complications of injection anaesthesia - local and general
9. Forceps for extraction, technique of extraction generally Elevators for extraction - Bein, Schlemmer, Leclus and other
10. Indications and contraindications of extractions, tooth extraction in summary
11. Local complications of extraction - fracture of the tooth (root), fracture of the alveolar bone and jaws, luxation of the mandible, damage of soft tissues
12. General complications of extraction - syncope, ingestion/aspiration of tooth, bacteriemia.

PRACTICALS:
Evaluation of an out-patient before surgical procedure (min. 3-times). Evaluation of intraoral x rays (teeth, alveolar ridge) (min. 3-times). Visit of the radiological workplace, positions of patient by various skull projections, CT (once).

Evaluation of subject

Study branch: DENTISTRY

Course: DENTAL PROSTHETICS 1

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Syllabus: DENTAL PROSTHETICS 1


LECTURES:
Relevance of prosthetics, clinical examination of the patient, with patient health evaluation. Dental defects. Basic types of prosthetic appliances. Classification system, functional division of prosthetic appliances, crowns and bridges, impression in prosthetics.

PRACTICAL LESSONS AND SEMINARS:

Evaluation of subject
Study branch: DENTISTRY

Course: DENTAL RADIOLOGY

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Syllabus: DENTAL RADIOLOGY


LECTURES:


US - basic principles of US, types of machines, practical use in diagnosis, indication for examination, Doppler technique.

CT - physical principles, types of machines, indication for examination, practical use in diagnosis.

Imaging methods in cardiology, angiography, pneumology and mammography.

Imaging methods in gastroenterology, hepatobilary systems, pancreas, urology and gynecology. Imaging methods in musculoskeletal radiology.


PRACTICALS:

Organisation of workflow process on radiology dpt. Digital network.

Workflow on conventional radiology dpt., radiological systems used in stomatology - orthopantomograph, special dental projections. Basic knowledge of examination methods in mammography, in region of head, neck, abdomen, pelvis and musculoskeletal system.

Workflow on MRI, angiography, sterilisation, diagnostic and therapeutic procedures. Assistance by dental radiographic examination.


Study branch: DENTISTRY

Course: PRACTICE IN OUT-PATIENT’S DENTAL CLINIC AND LABORATORY

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Syllabus: PRACTICE IN OUT-PATIENT’S DENTAL CLINIC AND LABORATORY

Two weeks training will be held in the dental laboratory or at the department of pre-clinical dentistry. The students is obliged to write his/her working book.

Contents of training in laboratory: casting of all types of impressions, making plaster models, making occlusion sablons and spoon for moulding of the teeth, putting teeth into wax, flashing, modeling and polishing of denture /protheses/, restorastion of cracked denture, waxing of crowns and assistance in more complicated prothetic procedures.

Credits
Syllabus: ORAL SURGERY 2

Surgical extration of teeth (roots) - indications and surgical technique. Alveoloplasty - simple and multiple. Dentitio difficilis - clinical forms, therapy.

Trismus - arthrogenic, neurogenic, myogenic, inflammatory, from scaring and others, causal and supportive therapy. Orofacial infection - etiology, spread (subperiosteal and submucosal abscess of alveolar process of the jaws), perimaxillary abscess and phlegmon, abscess and phlegmon of the orbit, submandibular and submental abscess. Ludwig’s angina, deep inflammations of the tongue, parapharyngeal abscess. Therapy of orofacial infection - extraction, intraoral and extraoral incision, drainage, application of cold and heat, antibiotics. Prevention of odontogenic inflammations around the jaws. Purulent inflammations of jaws - acute osteomyelitis of the mandible and maxilla, chronic osteomyelitis. Specific inflammations of orofacial region - actinomycosis, TB, sarcoidosis, syphilis and other. Pathology of salivary glands (besides tumours) - sialoadenitis and sialolithiasis. Sialoses - Sjögren’s syndrome, Mikulicz disease and other. Pathologic communications between oral cavity and nasal cavity or the maxillary sinus (oronasal and oroantral fistulas). Maxillary sinusitis - acute and chronic inflammations, diagnostics and therapy.

LECTURES:
1. Surgical extration of teeth /roots/ - indications, x ray evaluation, surgical technique
2. Alveoloplasty - simple and multiple
3. Dentitio difficilis - clinical forms, therapy
4. Trismus - main types, the treatment
5. Orofacial infection - etiology, spread. Subperiosteal and submucosal abscess alveolar process of the jaws. Perimaxillary abscess and phlegmon, abscess and phlegmon of orbit
7. Therapy of the orofacial infection - extraction, intraoral and extraoral incision, drainage, application of cold and heat, antibiotics. Prevention of odontogenic inflammations around the jaws.
8. Purulent inflammations of the jaws - acute osteomyelitis of the mandible and maxilla, chronic osteomyelitis Specific inflammations in orofacial region
9. Sialoadenitis
10. Sialolithiasis
11. Sialoses - Sjögren’s syndrome, Mikulicz disease and other
12. Pathologic communications between oral cavity and nasal cavity or the maxillary sinus (oronasal and oroantral fistulas). Maxillary sinusitis - acute and chronic inflammations, diagnostics and therapy.

PRACTICALS:
- self made of all types of the intraoral injection anaesthesia, observation of extractions
- instruction of patient after the extraction of tooth

Evaluation of subject
Study branch: DENTISTRY

Course: ORAL SURGERY 3

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Syllabus: ORAL SURGERY 3

Apicectomy, indications and contraindications, surgical technique. Periapical curettage and other procedures accomplishing the endodontic treatment. Pathology of cysts of the orofacial region - odontogenic bone cysts (radicular, dentigerous and parodontal), nondental bone cysts (fissural), cysts of soft tissues (mukocele, ranula, ateroma, epidermoid cyst, neck cysts etc.). Therapy of cysts in the orofacial region - cystectomy and cystostomy, prevention of odontogenic cysts formation. Node syndrome - lymphadenitis and malignant lymphadenopathy. Injuries of teeth - fractures and avulsions. Fractures of alveolar ridges of the jaws, simultaneous dental trauma and soft tissue injuries. Precancers of oral mucosa and skin of the face - leukoplakia, erythroplakia, LRP and other. Therapy of the precancers, principles of the follow up.

LECTURES:
1. Surgical procedures accomplishing endodontics
2. Apicectomy, indications and contraindications
3. Technique of the apicectomy
4. Cysts of the orofacial region - pathology
5. Odontogenic bone cysts - radicular, dentigerous and parodontal
6. Nondental bone cysts (fissural)
7. Cysts of soft tissues - mukocele, ranula, ateroma, epidermoid cyst, neck cysts and other
8. Therapy of cysts of the orofacial region - cystectomy and cystostomy, prevention of odontogenic cysts formation
9. Node syndrome - lymphadenitis and malignant lymphadenopathy
10. Injuries of teeth - fractures and avulsions
11. Fractures of alveolar ridges of the jaws, dental trauma and soft tissue injuries

Examination
Study branch: DENTISTRY

Course: DENTAL PROSTHETICS 2, 3

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Syllabus: DENTAL PROSTHETICS 2, 3


LECTURES:
4th class, winter semester

4th class, summer semester

PRACTICAL LESSONS AND SEMINARS:
4th class, winter semester

4th class, summer semester

Evaluation of subject
Study branch: DENTISTRY

Course: ORTHODONTICS 1

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Syllabus: ORTHODONTICS 1


LECTURES:

PRACTICALS:
Recognition of milk and permanent teeth on dental casts and patients. Recognition of basic types of disgnathias - dental abnormalities, dental arch deformities and intermaxilar maldrelationships. Orthodontic impression technique. Demonstration of finished orthodontic cases.

Evaluation of subject
Study branch: DENTISTRY

Course: NEUROLOGY

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**Syllabus:** NEUROLOGY

Basics of neurologic examination. Disorders of cranial nerves: olfactory n., optic n., oculomotor n., trochlear n., abducent n., trigeminal n., facial n., statoacoustic n., glossopharyngeal n., vagus n., accessory n., hypoglossal n. Main neurologic syndromes:

- a) Motor syndromes (weakness, paresis, paralysis, palsy, plegia, akinesia, myotonia, hyperkinetic syndromes).
- b) Sensory syndromes.
- c) Syndromes of local NS damage (cortical, subcortical, brain stem, cerebellar and spinal cord syndromes).


**LIST OF LESSONS:**


**LIST OF PRACTICALS:**

History in neurology. Examination of cranial nerves, upper and lower extremities. Examination of sensation, posture, walking. Demonstration of patients with cerebrovascular diseases, spinal radicular syndromes, paroxysmal disorders, demyelinating diseases, spinal radicular syndromes, paroxysmal disorders, demyelinating diseases, lesions of peripheral nerves. Explanation of spinal cord, brain stem and hemispheric syndromes. Demonstration of patients with other neurological diseases. Individual examination of a patient, analysis and evaluation of student’s medical report.

**Examination** - practical part (examination of a patient)
- oral part
Study branch: DENTISTRY

Course: PSYCHIATRY

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Syllabus: PSYCHIATRY

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:

PRACTICAL TRAINING TOPICS:

Examination - oral form
### Study branch: DENTISTRY

**Course:** INTERNAL MEDICINE 1, 2

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**Syllabus:** INTERNAL MEDICINE 1, 2

Diagnostic, differential diagnostic and therapeutic procedures in cardiology, angiology, haematology and infectology.

**LECTURES:**

**Winter semester:**

**Summer semester:**

**CLINICAL TRAININGS:**

**Winter semester:**

**Summer semester:**

**Credits:**
- 100% attendance on clinical training
- 70% correct answers in multiple choice test

**Evaluation of subject**
Study branch: DENTISTRY

Course: SURGERY

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Syllabus: SURGERY

Traumatology, basic orthopaedics, urology, neurosurgery, vascular surgery and basic cardiosurgery, thoracic surgery, abdominal surgery.

LECTURES:

4th class

5th class

CLINICAL TRAINING:

4th class

5th class

SEMINARS:


Examination - 4th class Evaluation of subject
State examination 5th class - practical part; oral part

Study branch: DENTISTRY

Course: OTORHINOLARYNGOLOGY

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Syllabus: OTORHINOLARYNGOLOGY

The nose and paranasal sinuses.

Mouth, pharynx and esophagus.

The ear.

The larynx.

**The neck and salivary glands.**

**Examination**
Syllabus: OPHTHALMOLOGY

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

LECTURES:

PRACTICAL LECTURES:

Examination
Study branch: DENTISTRY

Course: PRACTICE IN OUT-PATIENT’S DENTAL CLINIC 1

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<tr>
<th>Class</th>
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<th>hours of lectures/practical lessons</th>
<th>examination/es</th>
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Syllabus: PRACTICE IN OUT-PATIENT’S DENTAL CLINIC 1

Working diary for the final evaluation.

1. Examination of the oral cavity and teeth. Documentation. Administration in work with valuable metals.
2. Work with the instructor - dentistry at the chair. Simple conservative dentistry, prosthetic and dentoalveolar surgical procedures. Following of more complicated procedures.

Credits
Study branch: DENTISTRY
Course: INTERNAL MEDICINE - summer practice

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<tr>
<th>Class semester</th>
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<th>examination/es</th>
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<td>4\textsuperscript{th} compulsory practice</td>
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Syllabus: INTERNAL MEDICINE - summer practice

Holiday clinical training takes 1 week. Students work at the department with their instructor. They do all documentation in admittance and discharging patients and they write progress notes. They take part in ward rounds of the head of the department to get knowledge of internal propedeutics. Students perform practical diagnostic and therapeutics procedures /application of injections i.v./ under supervising of their instructor. They are acquainted with all examination methods from endoscopy, ultrasonography to other non-invasive cardio logical examinations. They also work at the central admittance and coronar unit. At the morning meeting of the workers of the department they get the survey of the problems of the organization of the department of internal medicine and other problems related to the patient and his psychosocial problems.

Credits
Study branch: DENTISTRY

Course: SURGERY - summer practice

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Syllabus: SURGERY - summer practice

1. Students become acquainted with the work of house officers at the department of surgery. A part of the training, at least one third of the time, should be at out-patient department. Students attend seminars of physicians and medical staff and have to work out 1-2 reports on emergency surgery. House officers help students to write the report.

2. Practice in washing before the operation, dressing of a surgeon before the surgical procedure, preparation of the operation area, positioning and towelining of a patient.

3. Assistance in surgical procedures, practical use of particular instruments.

4. Dressing wounds at the out-patient department, simple surgical procedures /incision, excision, sutures of wounds/, use of local anaesthesia /infiltration/, drainage technique in small surgery.

5. Bandage technique /desault, spica, capistum testuda etc./. Plaster cast technique under supervision.

6. Examination of patient, patient’s history, preoperation examination and preoperation preparation /medicamentose, dietetic, psychologic/.

7. At the in-patient department giving i.m. and i.v. injection and infusion under supervision, assistance in blood transfer. Bandage of surgical wounds.

8. Assistance in some examination and therapeutical methods /rectoscopy, X-ray, gastrofibroscopy, ERCP, thorax and abdomen puncture, autonomic nerve blockage, lager veins cannulisation etc./.

9. Students must come over the basic X-ray technique and diagnostic of the emergency surgery.

10. Two night-shifts /after a night-shift they are not entitled to a day off/.

Credits
Study branch: DENTISTRY

Course: INTERNAL MEDICINE 3, 4

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Syllabus: INTERNAL MEDICINE 3, 4

Diagnostic, differential diagnostic and therapeutic procedures in pneumoephiseology, gastroenterology, hepatology, endocrinology, diabetology, nephrology and rheumatology. Special problems in internal medicine from the aspect of the dentist.

LECTURES:

winter semester
- Gastric ulcer. Duodenal ulcer. Malignant tumours of the gastrointestinal system, precanceroses. Noninfectious inflammatory bowel diseases.

CLINICAL TRAININGS:

winter semester
- Cardinal symptoms in bronchial and lung diseases. Pulmonary tuberculosis.
- Cardinal symptoms, basic diagnostics and treatment in diseases of the oesophagus, stomach, duodenum, large bowel and rectum. Cardinal symptoms, basic diagnostics and treatment in diseases of the liver, gallbladder, bile ducts and pancreas.
- Cardinal symptoms, basic diagnostics and treatment of diseases of the hypophysis, thyroid and adrenals. Diabetes mellitus, diabetic complications, hyperglycaemic and hypoglycaemic coma.
- Cardinal symptoms of diseases of locomotorial system. Inflammatory and degenerative diseases of joints. Connective tissue diseases.

Conditions for receiving credits:
- 100% attendance on clinical training
- 70% correct answers in multiple choice test

CLINICAL TRAINING BLOCK:

summer semester
- During the pre-state examination block, the student performs practical activities in the range of registrar’s duties. The stay at the coronary care unit enables the student to acquire the skills in the basic diagnostic and therapeutic procedures in the management of critical conditions and diseases. The stay at the department of urgent medicine. The student is taking part on seminars.

SEMINARS:

Evaluation of subject
- State examination - practical part
  - oral part
Study branch: DENTISTRY
Course: MAXILLOFACIAL SURGERY 1, 2

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Syllabus: MAXILLOFACIAL SURGERY 1, 2

winter semester
- Prevention of cancer in oral and maxillofacial region - primary, secondary and tertiary.
- Evaluation of patient in oncology - anamnesis, inspection and panendoscopy, palpation.
- Radiological methods in oncology - nonionizing (USG, MRI) and ionizing (x ray, CT). Histopathological evaluations, diagnostic and curative excision. Frozen section and cytology. Complex treatment of the cancer disease - surgery, radiotherapy, chemotherapy, immunotherapy.

summer semester
- Evaluation of patient with maxillofacial injury - anamnesis, main and accessory symptoms and signs of the maxillofacial fractures, radiology.
- General management of patients with maxillofacial injury - nutrition, hygiene, prevention of the thromboembolic disease and bronchopneumony, complex rehabilitation.
- Injuries of the facial soft tissues and scalp - types, treatment. War injuries. Judgement in maxillofacial traumatology and compensations (for the pain and permanent consequences).

LECTURES:
winter semester
1. Prevention of cancer in oral and maxillofacial region - primary, secondary and tertiary
2. Evaluation of patient in oncology - anamnesis, inspection and panendoscopy, palpation.
3. Radiological methods in oncology - X ray, USG, CT, MRI.
4. Histopathological evaluations, frozen section and cytology
5. Complex treatment of the cancer disease
6. Malignant epithelial tumours and TNM classification. Carcinoma of the lip
7. Carcinoma of the tongue and floor of the mouth, neck dissections
8. Cancer of the jaws, carcinoma of the maxillary sinus
9. Sarcomas of orofacial region
10. Benign tumours of orofacial region
11. Odontogenic tumours
12. Pseudotumours
13. Benign tumours of salivary glands - mixed tumour, cystadenolymphoma and other

summer semester
1. Evaluation of patient with maxillofacial injury. Main and accessory symptoms and signs of the maxillofacial fractures
2. Radiology in maxillofacial traumatology
3. General complications of maxillofacial trauma - craniocerebral injuries, asphyxia, haemorrhage, polytraumas and traumatic shock
4. Temporary treatment of fractures - wire ligatures, dental splints
6. Osteosynthesis - techniques with wire
7. Plate systems /compressive plates and miniplates/, external fixation
8. Classification of the mandibular fractures
9. Fractures of the midface - central part /Le Fort/
10. Fractures of the midface - lateral part /zygomaticomaxillary complex, zygomatic arch, blow out fracture/. Panfacial fractures
11. Specific maxillofacial fractures by elderly patients and children. Pathological fractures
12. General management of patients with maxillofacial injury - nutrition, hygiene, prevention of the thromboembolic disease and bronchopneumony, complex rehabilitation
13. Injuries of the facial soft tissues and scalp - types, treatment. War injuries

PRACTICALS:
winter semester - evaluation of in-patient, record of patient /10-times/
- evaluation of out-patient for prevention of cancer /5-times/
- assistance by dentoalveolar surgery, self made a part of it /suture of the wound, wire ligatures etc. /min. 3-times/
- simple extractions /min. 5-times/
**summer semester** - 5 extractions /one of them with separation of roots/
- assistance in minor operation theatre /5-times/
- self made insertion of dental splints from free hand, Ivy loops /min. once/

**Evaluation of subject**
Study branch: DENTISTRY

Course: DENTAL PROSTHETICS  4, 5

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Syllabus: DENTAL PROSTHETICS  4, 5


LECTURES:

winter semester

summer semester

PRACTICAL LESSONS AND SEMINARS:

winter semester

Examination - oral form
Evaluation of subject
Study branch: DENTISTRY
Course: PERIODONTOLOGY 1, 2, 3, 4

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Syllabus: PERIODONTOLOGY 1, 2, 3, 4


LECTURES:
5th class, winter semester

5th class, summer semester

CLINICAL TRAINING:
5th class, winter semester

5th class, summer semester

6th class, winter semester

6th class, summer semester

Evaluation of subject
Examination - 5th class - oral form
Study branch: DENTISTRY

Course: ORTHODONTICS 2, 3

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Syllabus: ORTHODONTICS 2, 3


LECTURES:
winter semester

summer semester

PRACTICALS:
winter semester
Recognition of dental age and basic anomalies of dentition. Angles and biogenetic classifications on dental casts and patients. Making the orthodontic impressions and the waxbites in terminal occlusion and constructional waxbites. Examination of patients, description of intraoral and panoramic X-rays.

summer semester
Analysis of dental casts, orthodontic indexes, orthodontic treatment generally, basic types of orthodontic appliances, orthodontic plates and doubleplates.

Evaluation of subject
Examination - practical part
- oral part
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**Syllabus:** MANAGEMENT OF DENTAL PRACTICE


Tray system. Four-handed dentistry.

Dental instrumentarium. Special instruments.


Dentist, assistant, dental hygienist, preventist. Documentation in dentistry. Contact with patients.


**LECTURES:**

Requirements for introducing of dental practice. Hygienic conditions for establishing of dental offices.


Complete preventive and treatment plan of stomatological patient.

System of postgraduate continuing education.

**CLINICAL PRACTICALS:**

Exercises in ergonomy in dental offices

**Examination:**

- practical part
- oral part
**Study branch:** DENTISTRY

**Course:** GERONTOSTOMATOLOGY - GERODONTOLOGY

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**Syllabus:** GERONTOSTOMATOLOGY - GERODONTOLOGY


**LECTURES:**

**CLINICAL PRACTICALS:**
Demonstration of elderly patients, preventive and therapeutical procedures in restorative, preventive dentistry, prosthetic treatment and surgical dentistry in geropatients.

**Examination** - practical part
- oral part
Syllabus: GYNAECOLOGY and OBSTETRICS


Hormonal therapy in gynaecology - view of stomatology.

Stomatology and obstetrics in abtenatal care.

LECTURES:

Hormonal therapy in gynaecology - view of stomatology.

CLINICAL TRAINING:

Examination - practical part
- oral part
### Study branch: DENTISTRY

#### Course: DERMATOVENEROLOGY

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**Syllabus:** DERMATOVENEROLOGY


**LIST OF LECTURES:**


**CLINICAL TRAINING:**


**Examination** - practical part
- oral part

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### Study branch: DENTISTRY

#### Course: PAEDIATRICS

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**Syllabus:** PAEDIATRICS


**LECTURES:**


**CLINICAL TRAINING:**


**Examination** - practical part
- oral part
Study branch: DENTISTRY

Course: PRACTICE IN OUT-PATIENT’S DENTAL CLINIC 2

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Syllabus: PRACTICE IN OUT-PATIENT’S DENTAL CLINIC 2

1. Complex examination of the oral cavity. Complex plan of conservative, prothetic and surgical procedures.
3. Examination of the state of paradont. Plaque control. Instruction on hygiene of the oral cavity and diet.

Credits
Study branch: DENTISTRY

Course: MAXILLOFACIAL SURGERY 3
ORAL and MAXILLOFACIAL SURGERY

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State examination block

Syllabus: MAXILLOFACIAL SURGERY 3. ORAL and MAXILLOFACIAL SURGERY


LECTURES:

1. Pain in orofacial region generally
2. Trigeminal neuralgia
3. Glossopharyngeal neuralgia and atypical neuralgias
4. Facial palsy
5. TMJ disorders - etiology, classification
6. Diagnosis of the TMJ disorders - clinical evaluation
7. Radiology of TMJ - x ray, CT, MRI
8. Conservative treatment of TMJ
9. Arthroscopy and surgical treatment of the TMJ disorders
10. Orthodontic anomalies - etiology, classification
11. Evaluation in the orthognathic surgery
12. Progeny - surgical treatment and its complications
13. Laterogeny and facial asymetry. Distraction osteogenesis
14. Open bite
17. Preprosthetic surgery - division
18. Dento/alveolar preprosthetic surgery
19. Social preprosthetic surgery of edentulous jaws
20. Implantology - division, plan of treatment
22. Implantology by edentulous jaws
23. Bone diseases in the orofacial region.
1.-12. Free topics - in block of lectures in the summer semester before the State Examination by agreement between the lecturer and students (overviews and recapitulations, progress and inovations).

PRACTICALS:

Winter semester - mixed clinical treatment (surgical procedures as indicated by the pacient)
Summer semester BLOCK - 10 extractions (self made)
- surgical extraction (min. once assistance)
- apicectomy (min. once assistance)
- frenulektomia or vestibuloplasty (once assistance)
- assistance in the major operating theatre (by occasion).
- full information on patient by the visit.

Evaluation of subject
State examination - practical part
- oral part
**Study branch:** DENTISTRY

**Course:** ORTHOPAEDIC DENTISTRY 1, 2

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**Syllabus:** ORTHOPAEDIC DENTISTRY 1, 2


**LECTURES:**

winter semester

summer semester

**PRACTICAL LESSONS AND SEMINARS:**

winter semester
Complex treatment of patient with periodontal treatment by fixed and removable appliances. Diagnosis of TMJ disorders, therapy of TMJ arthropathy.

summer semester

**Evaluation of subject**
State examination - practical part
- oral part
Study branch: DENTISTRY

Course: THERAPEUTIC DENTISTRY 1, 2

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Syllabus: THERAPEUTIC DENTISTRY 1, 2


LECTURES:

winter semester

summer semester

CLINICAL PRACTICALS:

winter semester
Prevention, diagnosis and therapy of basic stomatological diseases. Making whole scala of preventive, diagnostical and treatment procedures in restorative dentistry, periodontology and paedodontics in children and adults.

summer semester
Complete approach and professional aspect on stomatological patient. Complete examination, diagnosis and treatment planning. Knowledge obtaining for ability to provide complete treating solutions of stomatological patient who comes in dental office with his/her difficulties, problems, imagines and possibilities. Management of hadicaped patient.

Evaluation of subject

State examination - practical part; oral part
Study branch: DENTISTRY

Course: PAEDIATRIC DENTISTRY

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Syllabus: PAEDIATRIC DENTISTRY


LECTURES:
winter semester


CLINICAL PRACTICALS / SEMINARS /:
winter semester

Examination: - practical part
- oral part

Study program: DENTISTRY

Course: ORTHODONTICS 4,5

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Syllabus: ORTHODONTICS 4,5


LECTURES:
winter semester

summer semester

PRACTICALS:
winter semester
Complex orthodontic diagnosis , determination of treatment plan, activator and his modifications, extraction therapy.

summer semester
Complex orthodontic examination, determination of complex diagnosis, treatment plan with determination of sequence of individual steps. Proposal of concrete orthodontic appliance. Absolving the basic operations for fixed orth. appliances. Bonding the brackets, cementing of bands, ligation of arches, debonding of brackets, making of retention appliances.

Evaluation of subject
Study branch: DENTISTRY

Course: EPIDEMIOLOGY

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Syllabus: EPIDEMIOLOGY


LIST OF LECTURES:


PRACTICAL LESSONS:


Examination - oral form
Study branch: DENTISTRY

Course: HYGIENE

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Syllabus: HYGIENE


LIST OF LECTURES:

SYLLABUS OF THE PRACTICALS:

Examination - oral form
Study branch: DENTISTRY
Course: SOCIAL MEDICINE

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Syllabus: SOCIAL MEDICINE


LECTURES:

SEMINARS:

Examination - oral form
Study branch: DENTISTRY
Course: FORENSIC MEDICINE

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<td>12/12</td>
<td>E</td>
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**Syllabus:** FORENSIC MEDICINE


**LECTURES:**

**PRACTICAL LESSONS:**

**Examination** - oral form