University of Novi Sad

Faculty of Medicine

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Integrated Academic Studies in Dentistry
Study Program 2014

www.mf.uns.ac.rs
DENTISTRY
5 YEARS – 300 ECTS (Integrated 1st and 2nd level study)
Professional title acquired: DOCTOR OF DENTISTRY
Access to further study: PhD study; Academic Specialization Study
Accreditation (see page 4.): National Committee for Accreditation and Quality Control,
Decision No. 612-00-208/2009-04 dated 09 April, 2010
Last accreditation (renewed) dated August 2014.

Structure of the study program
Integrated studies of dentistry, which results in the academic title of Doctor of Dentistry, last 5 years and 10 semesters and include 1935+2430 hours of teaching that includes performance of theoretical and practical training and other forms of active teaching and 150 hours of research with the aim of making the final defense of the diploma (a total of 4515 hours).
The total student workload throughout the Integrated Academic Studies in Dentistry (active training, continuous training programs, exams and colloquia preparation, and final written exam preparation) equals 300 ECTS credit points. One ECTS credit stands for approximately 27 working hours.

The most important teaching methods include:
1. Interactive communication in the teaching process;
2. Teaching in small groups;
3. Individual laboratory and clinical practice;
4. Skills demonstration;
5. Lectures illustrated by slides and video clips.

All forms of active teaching are based on interactive teaching characterized by discussions on the topic, explanation of personal attitudes supported by theoretical or experience-based arguments, defining dilemmas regarding the topic and their solutions. Interactive teaching, as a current teaching method, provides better understanding of the teaching subjects, acquiring the inventive knowledge, development of personal opinions and adoption of the existing scientific doctrines.

After completing the whole Curriculum of the Integrated Academic Studies in Medicine at the Faculty of Medicine of the University of Novi Sad, students gain knowledge and skills necessary for independent individual work.

The Purpose of the Study Program
Reforms taking place in all areas of social life necessitate new approaches to higher education and health care systems. In these fields priority is given to all the actions contributing to the adjustment of our systems with the standards and principles of the European health care and higher education (Bologna and Munich Declarations).
This Curriculum is based on: University Law, Higher Education Law of the Republic of Serbia, recommendations and standards of the World Federation of Medical Education, principles of the European higher education incorporated in the Bologna Declaration, and on the need for highly educated health care professionals capable to follow the rapid development of medical science and practice.

This study program promotes the following European principles:
- Rationalization and modularization of study programs;
- Implementation of the ECTS credit system;
- Introduction of new teaching modalities and continuing learning process for students;
- Introduction of instruments for teaching process quality control;
- Involving students into the process of education as partners.
The Curriculum has clearly defined goals:
- Efficient learning;
- Higher levels of professional and scientific competence of graduate students should be of social and national interest;
- Curricula adjustments according to the standards of European institution of higher education (from the aspect of quality, workload and teaching methods), which would certainly contribute to greater mobility of students, faculty and research ideas;
- Introduction of standards into the assessment of knowledge, skills and professional competence, which would be comparable with standards in Europe. In this way all dentistry students would be equal with their colleagues in the whole Europe.

The Objectives of the Study Program

The aim of the study program is that students acquire knowledge:

- in the biomedical sciences which form the basis for the understanding of the growth, development and human health;
- about the normal structure and function of human organism, with special emphasis on the orofacial system;
- on oral biology, with detailed knowledge of form and function of teeth and surrounding structures, both in the state of health and in sickness;
- about the diseases of orofacial system from the standpoint of prevention, diagnosis and therapy;
- violation of the materials and/or function of the human organism and the occurrence of the etiology of disorders, especially of the orofacial system and the impact of these diseases on the whole organism;
- The sources of infection and how infection is controlled;
- The respective clinical disciplines that provide the acquisition of manual skills required for work in the dental profession;
- Communication between dentist and patient, his family, colleagues and the general public;
- Interpersonal skills necessary to work in a team;
- On the principles of importance for health promotion, health education and disease prevention concerning the orofacial region;
- On the mental and physical diseases of man and of human reproduction;
- Understanding the relationship between health status and diseases of the orofacial region and the social environment;
- The specific dental disciplines, including science of dental biomaterials, fear and pain control, dental public health, oral and maxillofacial surgery, oral medicine, oral microbiology, oral pathology, oral radiology, orthodontics, children's dentistry, pharmacology and therapeutic tools, preventive dentistry, Periodontics, restorative dentistry and dental prosthetics;
- From deontology, ethics and legal responsibilities of doctors, especially in the field of dentistry;
- On the necessary clinical experience, under expert supervision in health care facilities;
- On the scientific methods and the application of biomedical measurement, assessment of scientific facts and data analysis.

The competencies of graduates

Dentists acquire the competence to apply the acquired theoretical knowledge, clinical skills as well as standards of professional and scientific communication in their work.

After completing the study program of integrated academic studies in dentistry, graduate dentists should have competence to consider complex issues in diagnosis and treatment plan, make clear assessments and conclusions, and to convey their decisions to patients and colleagues.
УНЕВРЕЊЕ
О АКРЕДИТАЦИЈИ СТУДИЈСКОГ ПРОГРАМА

УНИВЕРЗИТЕТ У НОВОМ САДУ-МЕДИЦИНСКИ ФАКУЛТЕТ са седиштем у ХАЈДУК ВЕЉКОВА 3, НОВИ САД, ПИБ: 100451043, Матични број: 08113599, испуњено је стандарде прописане Правилником о стандардима и поступку за акредитацију високошколских установа и студијских програма („Службени гласник РС“ број 106/06), за акредитацију студијског програма Интегрисане академске студије - СТОМАТОЛОГИЈА-НА ЕНГЛЕСКОМ ЈЕЗИКУ у оквиру поља медицинских наука и то за 45 студената у седишту.

Ово уверење издаје се на основу члана 16. став 5. тачка 1) Закона о високом образовању („Службени гласник РС“ број 76/05).

Број: 612-00-208/2009-04

Београд, 09.04.2010. године

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4. Experimental pharmacodynamic methods in experimental animals
5. Rational drug use in pregnancy and lactation

Active teaching | Medical psychology | 480 | 900 | 60.0 |
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1. Nanostructured biomaterials in dentistry
2. Basics of periodontal surgery
3. Risk diseases in dentistry
4. Clinical Gnathology
5. Mouth and dental injuries in children
6. Clinical toxicology
7. Expertise in dentistry

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**Total teaching hours**

| 1. Theoretical                | 1935 |
| 2. Practical                 | 2430 |
| 4. SRA                       | 150  |

| Total ECTS                  | 300  |

**Legend**

- T – theoretical teaching (Lectures)
- P – practical teaching (Practice)
- IA – individual activities
- SRA – Study- research activities
### 1. ANATOMY (StI-ANT)

**STUDY PROGRAMME**: Integrated studies in dentistry

**DEPARTMENT**: Department of Anatomy

**NAME OF THE SUBJECT**: ANATOMY

**STATUS OF THE SUBJECT**: Compulsory

**CONDITION**: none

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**Methods of conducting teaching**: Lectures and practical classes

#### PURPOSE

Acquiring knowledge about human body that will be a basis for exploring histological built and form, as well as the possibility of practical application of the acquired knowledge in anatomy for better understanding of morphological structures of head and neck as a whole.

#### KNOWLEDGE

- Getting to know morphology and built of certain parts of the body. Acquiring knowledge from systematic and topographic anatomy, which will be of use in practical lectures primarily in branches, which are directly linked with pathological anatomy, patho-histology, all surgical branches, groups of conservative therapy, radiological and radiotherapeutical procedures as well as better understanding of biomedical procedures which are oriented towards the needs of pathology from the area of neck and head.

#### SKILLS

- Learning about practical topics related to anatomy, recognizing and noticing relations between certain anatomic structures on bones (certain parts of the body, organs, primarily of head and neck) as well as on x-ray, NMR and CT scanning. Knowing of anatomical structures represents the basis of surgical techniques, radiological and radiotherapeutical treatments as well as understanding of biomedical and disciplines close to dentistry.

#### SUBJECT CONTENT:

**Theoretical lectures** – methodical units

1. General anatomy: general osteology, general anthropology, general myology, general angiology, general neurology
2. Bones, joints, muscles, blood vessels, lymphatic and nerves of upper limbs; monographic regions of upper limbs.
3. Bones, joints, muscles, blood vessels, lymphatic and nerves of lower limbs; monographic regions of lower limbs.
4. Spine
5. Chest walls: classification and content of chest (lungs, heart, esophagus, blood vessels, lymphatic system and nerves)
6. Stomach walls: division and content of stomach
7. Pelvic walls, content of pelvic cavity, male and female sex organs, bladder and rectum
8. Skull and face bones, craniofacial cavities, joints, muscles, blood vessels, lymphatic system and head and neck nerves.
9. Head and neck organs
10. Eye and ear
11. External morphology of central nervous system, meninx, and cavities of central nervous system
12. Built of central nervous system; brain pathways; blood vessels of central nervous system

**Practical lectures** – methodical units

1. Bones, joints, muscles, blood vessels, lymphatics and nerves of upper extremity
2. Bones, joints, muscles, blood vessels, lymphatics and nerves of lower limbs; monographic regions of lower extremity.
3. Spine
4. Chest walls: division and content of chest (lungs, heart, esophagus, blood vessels, lymphatics and nerves)
5. Stomach walls: division and content of stomach
6. Walls of pelvis, male and female sex organs, bladder and rectum
7. Skull and face bones, craniofacial cavity, joints, muscles, blood vessels, lymphatics and head and neck nerves
8. Head and neck organs
9. Topographic regions of head and neck
10. Eye and ear
11. External morphology of central nervous system
12. Sections of the brain, blood vessels, blood vessels of the central nervous system

#### RECOMMENDED READINGS

**Compulsory**


### Evaluation of students' work – Points per individual activity

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<th>Full-Professor</th>
<th>Scientist</th>
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1. Prof. dr Marija Mihaljić
2. Prof. dr Ljilja Mijatov-Ukropina
3. Prof. dr Nada Mihitić
4. Prof. dr Ljubica Stojišić-Džunja
5. Doc. dr Siniša Babović
6. Doc. dr Dušica Marić
7. Doc. dr Biljana Srdić
8. Doc. dr Mirela Erić
9. Asist. dr Bojana Krstosnić
10. Asist. dr Mirjana Milošević
11. dr Nikola Vučinić, teaching associate

Head of the Department

Doc. dr Biljana Srdić Galić
2. HISTOLOGY AND EMBRIOLOGY (ST-HI/EM)

**JY PROGRAMME** Integrated studies in dentistry

**DEPARTMENT** Department of histology and embryology

**NAME OF SUBJECT** HISTOLOGY AND EMBRIOLOGY

**STATUS OF THE SUBJECT** Compulsory

Condition: none

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**Methods of conducting teaching** Theoretical and practical lessons.

**GOAL** Acquiring knowledge and skills necessary for 1. Recognizing and differentiating of certain tissues and organs including their structural characteristics as well as recognizing structures that are not usual 2. Differentiating of certain phases in development of human fetus and embryo and description of basic disorders in development of some organs and organ systems.

**PURPOSE** Knowledge

A student should know 1. Ultra structural characteristics of a cell, morphological characteristics of some organelles and their function. 2. Types of tissues and their morphological characteristic and function 3. Morphological characteristic and function of all organs and systems. 4. Morphological characteristics of preembryonic, embryonic and fetal development of a person. 5. Histological elements connected to some organs relevant for evaluating age of fetus. 6. Morphological basic disorders in development of some organs and systems.

Skills

On microscopic examination, the student has to be able to: recognize all cell organelles and four basic types of tissues and relevant changes in light microscopy; all organs described and addressed in theoretical classes; describe and recognize the phases of fetal development in graphs and photos; recognize the age of fetus and to notice all changes in organs and organ systems on graphs, drawings and photos.

**CONTENT OF THE SUBJECT**

**Theoretical teaching** – methodical units

1. Structural characteristic of a cell and its development and life
2. Histological characteristic of epithelial, connective, muscle and nerve tissue, subdivisions, structures and functions.
3. Histological built of organs of circulatory and immune system, digestive system and additional glands, respiratory and urinary system, female and male genital system, endocrine and nervous system, hearing organs, skin and joints.
4. Fertilizing, navel cord and placentas, pre-embryo, embryos and fetus development of tissues. Development of all body organs and organ systems as well as disorders in their development and significance for surviving.

**Practical teaching** – methodical units

1. Cell and cell organelles on ultra structural level- microphotography.
2. Epithelial tissue
3. Histological structure of heart, arteries, thymus, capillary vein, lymph nodes, spleen, organs of mouth, tonsils, esophagus, stomach, colon, bowels, bladder, pancreas, nose, lungs, urinary tract, ovary, ovarian tube, uterus, breast, testicle, male reproductive system, thyroid and hypophyseal glands, sensation organs, skin and deriva tives of skin, bone and joint structure.
4. Histological structure of embryonic and fetus tissues, navel cord, placenta and development of tissues and body organs.

**RECOMMENDED READING**

**Compulsory**


**Additional**


**Evaluation of students' work** – Points per individual activity

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# List of teachers and Assistants

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<td>Prof. dr Dušan Lalošević,</td>
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Head of the Department
Prof. dr. Dušan Lalošević
3. ENGLISH LANGUAGE I (SI-STJE)

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Methods of conducting teaching: Pract: Communication, Pract, practicing grammar and vocabulary using tests and orally, using visual and auditory methods, working in groups and individually.

Basic goal in teaching English is showing students the importance of knowing a foreign language because of communication as well as the fact that there are many seminar papers and books related to their occupation in English.

**Knowledge**
Teaching students basic English vocabulary, grammar, expressions, culture and tradition of English speaking countries. Showing the difference between expressions related to a profession and general English.

**Skills**
Application of the knowledge both in work and outside it. Ability of translating literature related to dentistry and using that knowledge both in writing and orally.

**CONTENT OF THE SUBJECT:**

**Theoretical teaching – methodical units**

1. **Introduction:** the importance of using English in everyday life as well as in the professional area; the human body seen from a layman’s and a doctor’s angle.
2. **Chemical elements and compounds:** structure of the atom, ions, isotopes, chemical bonds, basic elements that make up human body.
3. **The Cell:** different living organisms (single-celled, multi-celled), the cell – structure and functions, different types of cells and their functions in the human body.
4. **The Skeletal System:** types of bones; bone formation and structure - functions; the names of the major bones (their location in the skeleton); articulations.
5. **The Muscular System:** types of muscles (their functions and structure); tendons and ligaments.
6. **The Digestive System:** the main parts and other organs which take part in the process of digestion; general and specific functions.
7. **The nervous System:** nerve cell (structure and functions); generation and conduction of electrical impulses; the central nervous system; the peripheral nervous system (structure and functions).
8. **The Circulatory System:** Lymphatic System (parts), Cardiovascular System (structure and functions), the heart, arteries and veins, blood pressure.
9. **The Respiratory System:** respiration (external and internal); transport of gases; different parts of the system and their functions.
10. **The Excretory System:** body systems and organs which remove waste products (skin, digestive and respiratory system); the urinary system – main organs and their functions.
11. **The Endocrine System:** basic characteristics and functions, endocrine glands, different hormones and their roles.
12. **The Reproductive System:** male and female reproductive systems (anatomy); gonads, fertilization, gestation, parturition.
13. **Senses:** Sense organs – composition and functions (eye, ear, nose, tongue, skin)
14. **Body activities:** works used for diverse body activities in everyday life
15. **Physical appearance:** describing physical appearance of humans (hair, face, physical composition, skin, general appearance)
16. **Character:** describing human peculiarities (intelligence, life attitude, social behavior, ambition, fairness, etc.)
17. **Clothing:** diverse clothing items and their application, different materials used for clothing production, colors, appearance, style
18. **Interpersonal and family relations:** friendship, acquaintance, relatedness, love, collegiality
19. **Travelling:** vehicles, reasons for travelling (business travel, adventurism, tourism), getting around during travelling, destinations, planning
20. **Food:** different foods and their effects on human health, national cuisines, preparing meals/cooking, dining in restaurants
21. **Young people and society:** childhood, maturing, adolescence, man’s role in the society, individuals as a factor of social change, academic citizenship
22. **Humor:** humor as a reflection of human intelligence and positive way of thinking, humor as a health factor, humor as a cultural phenomenon, sense of humor
23. **Fear:** different types of fear, causes of fear, overcoming fear, role of fear in manipulating people
24. **Memory:** reliability of memory, practicing memory skills, motivation and memory, attention, learning
25. **Loneliness:** loneliness as a subjective phenomenon, circumstances leading to sensation of loneliness, solitude versus loneliness

**Practical teaching – methodical units**
**RECOMMENDED READING**


<table>
<thead>
<tr>
<th>Evaluation of students’ work – Points per individual activity</th>
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<td>Associate</td>
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<tr>
<td>2</td>
</tr>
<tr>
<td>1. Zoran Marošan, Lecturer</td>
</tr>
<tr>
<td>2. Vuk Marković, Lecturer</td>
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Head of the Department

Doc. dr. Dušica Rakić
4. BIOCHEMISTRY (StI-BHEM)

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Methods of conducting teaching

Lectures for bigger and smaller groups using multimedia. Testing. Practical knowledge- conducting biochemical analysis and reading results.

The goal of teaching biochemistry is to teach students to understand all biological processes in our body, to learn about basic methods used in clinical chemistry as well as diagnostic means. To enable future doctors to use these methods in right manner.

Knowledge

Knowing basic chemical constituents of human body, general metabolic ways, understanding the essence of many diseases and knowing specific biochemical processes of some organs and tissues.

Skills

Appropriate taking of biological material for biochemical analysis. Assessing reliability of some biochemical methods and their use for diagnosis. Using results of biochemical analysis for diagnosis. Examining metabolism the most important content of organism based on measures on biological samples. Proving basic laws of biochemistry based on laboratory methods.

CONTENT OF THE SUBJECT:

**Theoretical teaching – methodical units**

1. Introduction. The aim of practical classes. Checking the reliability of biochemical methods
3. Colorimetric determination of the concentration of inorganic phosphate.
5. Isolation, fibrinogen method.
7. Quantitative determination of urea. Berthelot method
8. Qualitative analysis of bile color in the serum and urine
9. Quantitative determination of chloride in serum
10. Qualitative detection of enzymes
11. Enzymatic hydrolysis of starch-alpha amylose activity
12. Principles of quantitative measurement of enzyme activity; Determination of alkaline phosphatase activity in function of time;
13. Proving the presence of the isoenzyme alkaline phosphatase.
14. Ionexchange chromatography of amino acids

**Practical teaching – methodical units**

1. Introduction. The aim of practical classes. Checking the reliability of biochemical methods
3. Colorimetric determination of the concentration of inorganic phosphate.
5. Isolation, fibrinogen method.
7. Quantitative determination of urea. Berthelot method
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12. Principles of quantitative measurement of enzyme activity; Determination of alkaline phosphatase activity in function of time;
13. Proving the presence of the isoenzyme alkaline phosphatase.
14. Ionexchange chromatography of amino acids
RECOMMENDED READING

Compulsory
1. S. Marinkov, J. Borota: Medicinska biohemija, Radnički univerzitet "Radivoj Ćirpanov" Novi Sad, 2006,

Additional

Evaluation of students' work – Points per individual activity

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List of teachers and Assistants

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<th>Assist. Prof</th>
<th>Assoc. Prof.</th>
<th>Full-Professor</th>
<th>Scientist</th>
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Head of the Department
Doc. dr Tatjana Ćebović
5. HUMAN GENETICS (StI-HUGE)

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Methods of conducting teaching: Lectures and Pract.

**PURPOSE**

- **Knowledge**: Students will be able to use basic genetic terms and be aware of the importance of genetics in modern science. They will learn about structure of chromatin, morphological and functional chromosome organization. They will be able to clearly differentiate the meiotic stages and understand the importance of cell division in transmission genetics. They will be able to apply Mendel's laws and understand inter- and intralocus gene interactions. They will be able to predict inheritance mechanisms and precisely construct family trees based on the given data. They will understand mechanisms of mutation, principles of mutagenic actions and mechanisms of DNA reparation. They will understand basic techniques of molecular genetics in prenatal diagnostics, population genetics and forensics, as well as principles of gene therapy.

- **Skills**: After pre-exam and exam obligations student will be able to:
  - See difference in structural levels and functional organization of human genome
  - Identify mechanisms of regulating gene expression
  - Understand genetic experiments aimed at determining causes for genetic diseases.
  - Explain methodology of basic techniques of molecular genetics in prenatal diagnostics, population genetics and forensics
  - To use the internet and other information sources and relevant scientific references

**CONTENT OF THE SUBJECT**

- **Theoretical teaching** – methodical units
  1. Introduction to human genetics. Structure of nucleic acids.
  3. Morphological and molecular organization of a chromosome
  6. Intralocus and interlocus gene interactions.
  7. Determination of gender. Gender related inheritance and holandric inheritance
  8. Polygenetic inheritance. Multifactorial and complex hereditary diseases
  9. Mutation, reparation and recombination of DNA
  10. Changes in the number and structure of chromosomes. Hereditary diseases induced by structural and numerical chromosomal aberrations.

- **Practical teaching** – methodical units
  1. Nucleic acids and gene expression
  2. Structural and molecular basis of chromosomes
  3. Cell divisions and gametogenesis
  4. Basic inheritance laws
  5. Analysis of family tree
  6. Gene interactions. Multiple alleles – aho system of blood groups and rh system
  8. Sex determination. Sex related characteristics.
  9. Changes in number and structure of chromosomes
  10. Multifactorial inheritance
  11. Molecular markers in human genetics

**RECOMMENDED READING**


### Evaluation of students' work – Points per individual activity

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<tr>
<th>Pre-exam obligations</th>
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<tr>
<td>1.</td>
<td>Asist. Nataša Vučinić</td>
<td></td>
<td>1. Prof. dr Mihajla Đan</td>
<td>2. Prof. dr Dragana Obreht</td>
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Head of the Department
Doc. dr Dušica Rakic
5. MEDICAL ETHICS AND SOCIOLOGY (SH-ME/SC)

**STUDY PROGRAMME**
Integrated studies in dentistry

**DEPARTMENT**
Department of general subjects

**NAME OF SUBJECT**
MEDICAL ETHICS AND SOCIOLOGY

**STATUS OF THE SUBJECT**
Compulsory

**Condition:** none

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**Methods of conducting teaching**
Video presentation and oral expression

**GOAL**
Encouraging student to work on their psychological and moral development to be able to have the right attitude in behavior in their future occupation.

**Teaching students about the greatest achievements in sociological science.**

**PURPOSE**

**Knowledge**
To give students basic knowledge about all oaths and codes of medical ethics as well as about laws and regulations related to the work of health workers. Better understanding of men, society and history as well as understanding of one's own profession.

**Skills**

**CONTENT OF THE SUBJECT:**

**Theoretical teaching** – methodical units

1. Definition of moral, morality, ethics, deontology, oaths and codes.
2. Ethical attitude of health worker towards patients in particular medicine branches.
3. Great and eternal dilemmas-euthanasia, abortion, medical secret... 
4. Ethical attitude of medical professionals towards their colleagues, community and their profession.
5. Medical deontology and medical law.
6. Subject and methods of sociology.
7. Definition of society and elements of social structure.
8. Culture as special surrounding of a man.
9. Social processes and change.
10. Main characteristic of modern Serbian society.

**Practical teaching** – methodical units

**RECOMMENDED READING**

**Compulsory**

**Additional**

**Evaluation of students' work** – Points per individual activity

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**List of teachers and Assistants**

1. Prof dr Aleksandra Doronjski
2. Prof dr Branimir Gudurić, emeritus
3. Dr Gordana Vilotijević Dautović, Assistant
4. Dr sci. med Maja Grujičić, Assistant
5. Prof dr Dragan Koković

**Head of the Department**
Doc. dr Dušica Rakić
7. FIRST AID (StI-PP)

<table>
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<th>STUDY PROGRAMME</th>
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Methods of conducting teaching: Practical work demonstrations and simulations of sudden injuries and giving first aid. Work on models.

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<tr>
<th>GOAL</th>
<th>PURPOSE</th>
<th>CONTENT OF THE SUBJECT</th>
<th>RECOMMENDED READING</th>
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Head of the Department
Doc. dr Vladan Popović
# 8. DENTAL ANATOMY (StI-DANT)

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### Condition:
- Anatomy

### Year of studies

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### Methods of conducting teaching
- Lectures and Pract.

### Purpose
- Getting acquainted with the morphology of orofacial complex

### Knowledge
- Acquiring knowledge about morphology of skeleton orofacial complex, muscles of this region, teeth lines and morphology of permanent teeth

### Skills
- Drawing and paraffin molding of morphological models of permanent dentition teeth

### Content of Subject

**Theoretical lectures** – methodical units
- Nodule-ridge complex and complex of depressions on occlusal tooth surfaces.
- Primary dentition. Attributes of humane dentition. Attributes of class, type and dental arch of milk incisors, canine and molars.
- Characteristic of human dentition. Physiological involution of orofacial system.

**Practical teaching** – methodical units

- Methods of conducting teaching
  - Lectures and Pract.


Introductory lesson: Anatomy of teeth cavity-demonstrative lesson.

Test.

### RECOMMENDED READING


### Evaluation of students' work – Points per individual activity

<table>
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### List of teachers and Assistants

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<tr>
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<td>Prof. dr Ljiljana Strajnić</td>
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<td>Assist dr Aleksandra Maletin</td>
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<td>Assist dr Milica Jeremić Knežević</td>
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Head of the Department
Prof. dr Đorđe Petrović
9. MEDICAL STATISTICS AND INFORMATICS (StI-MS/IF)

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Methods of conducting teaching: Lectures, Pract., work on computer

### GOAL
Teaching students to evaluate work using statistical analytical methods, organizing research to improve their work, exploring literature related to this. The goal of the subject is to introduce students to the basis of informatics and using it in medicine.

### PURPOSE

#### Knowledge
- Basic techniques and methods of health statistics, indicators of vital and demographic statistics.
- Solving problems using the computer (the role of the computer, algorithm and computer programs).
- Fundamentals of hardware and software of computer architecture.
- Fundamentals of system software (operating system, file management, auxiliary system programs).
- Purpose and types of application software.
- Fundamentals of computer networks and the Internet, and security in computer networks.
- Mobile Computing.
- Hardware of PCs.
- Computer software programming.
- Databases and Information Systems.

#### Skills
- The use of statistical techniques, their interpretation, application of statistical-analytical procedures and presenting the results in the literature.
- The role of computers in solving problems by using ready-made software solutions. Use of Internet services. Using office applications for word processing, spreadsheets, computer presentations, and creating simple web-presentations. Simple statistical analysis of medical data using the cross-tabulation method.

### CONTENT OF THE SUBJECT

#### Theoretical teaching – methodical units
1. Introduction to general and health statistics. Ways of data collecting
2. Control of collected data. Grouping and coding of data.
3. Displaying data in tables and graphs.
4. Analysis, absolute and relative numbers
5. Mean values.
7. Sample and standard mistake.
8. Trend and correlations.
9. Statistic tests.
10. Methodology for monitoring health status of the population.
11. Indicators of health status of the population
12. Number (density) and structure of population
13. Natural movement of population.
14. Mechanical movement of population
15. Morbidity
16. Solving problems by using computers (role of computers, algorithm and software programs)
17. Basic software and hardware architecture.
18. System and application software.
20. Application of computers in medicine (processing medical records, information systems in medicine, medical diagnostics, standards in medical informatics, telemedicine and health)
### Practical teaching – methodical units

1. Registration, polls
2. Displaying data on graphs and in tables
3. Analysis, absolute and relative numbers
4. Mean values
5. Variability
6. Sample and standard error
7. Trend
8. Correlation
9. T-test
10. χ²-test
11. Indicators of sex and age structure of population
12. Natality, fertility, reproduction
13. Indicators of mortality
14. Population growth and vitality index
15. Indicators of morbidity
16. Basic functions of operation system
17. Working with files
18. Using internet services
19. Text editing and processing
20. Cross tabulation
21. Statistical data processing using cross tabulation programs
22. Integration into unique document
23. Making of simple computer presentation
24. Making of simple Web presentation

### RECOMMENDED READING

**Compulsory**

**Additional**

### Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
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### List of teachers and Assistants

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1. Prof. dr Vera Grujić
2. Prof. dr Mirjana Martinov Cvejin
3. Prof. dr Eržebet Ač Nikolić
4. Prof. dr Zora Konjović
5. Doc. dr Svetlana Kregić
6. Doc. dr Vesna Mijatović Jovanović
7. Doc. dr Snežana Ukropina
8. Doc. dr Olja Nićiforović Šurković
9. Assit. dr Sonja Šušnjević
10. Assit. mr Nataša Dragnić
11. Assit. dr Dušan Čanković
12. Assit. dr Sanja Harhaji
13. Assit. dr Sonja Čanković
14. Assit. dr Ivana Radić

Head of the Department
Prof. dr Mirjana Martinov Cvejin
10. GNATHOLOGY (StII-GNTO)

**STUDY PROGRAMME**
Integrated studies in dentistry

**DEPARTMENT**
Department of dentistry

**NAME OF SUBJECT**
GNATHOLOGY

**STATUS OF THE SUBJECT**
Compulsory

**Condition**
Dental anatomy

**Year of studies**

<table>
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**Methods of teaching**
theoretical and practical

**GOAL**

**Knowledge**
Morphology of craniofacial, physiology and craniofacial systems, transmitting the basic parameters of the patients in the environment. Diagnosis and therapy of craniomandibular dysfunctions

**Skills**
Working with the articulator and facial bow, modeling according to Peter Thomas

**CONTENT OF THE SUBJECT:**

**Theoretical teaching – methodical units**
- Introduction to gnathology
- Cranio-mandibular connection - anatomical specificities
- Cranio-mandibular connection - functional specificities
- Muscles of the OFS, functional specificity of masticatory muscle
- Physiological regulation of jaw movements
- Central regulation of jaw movements
- Anatomical determinants of jaw movements; back (hinged) guidance
- Lower jaw movement
- Reference positions of the lower jaw
- Characteristic of physiologically optimal occlusion
- Characteristics of nonphysiological occlusion
- Articulators
- Simulation of eccentric motion of the lower jaw in adjustable articulators
- Functional analysis orofacial complex; importance, methods, scope of analysis
- Evaluation of occlusion complex status
- Analysis of inter jaw relationships
- Symptoms and signs nonphysiological occlusion
- Occlusal therapy
- Irreversible occlusal therapy
- Irreversible occlusal therapy - selective grinding
- Etiology, pathology and therapy of tooth abrasion.
- Irreversible occlusal therapy - restoration of occlusion using fillings, fixed and mobile replacement. Therapy of patients with malocclusion

**Practical teaching – methodical units**

- Cranio-mandibular joint connection, movement of the lower jaw;
- Articulators types, parts, work with the mid-range articulator
- Portable facial bow, demonstrations
- The mid-point of the lower jaw, finding and registering
- Semi adjustable articulators-positional registry, registration of the position. Analysis of the occlusion on models and in the articulator
- Analysis of tooth contact relationships in the prepared patient models
- Modeling of the occlusal relief according to P. K. Thomas in the upper lateral teeth
- Modeling of the occlusal relief according to P. K. Thomas in the lower lateral teeth
- Functional analysis of the orofacial complex;
- Evaluation of occlusal state complex
- Occlusal trauma
- Irreversible occlusal therapy, creation of Michigan splint

**RECOMMENDED READING**

**Compulsory**
1. Darinka Stanišić Sinobad, Osnovi gnatologije, Univerzitet u Beogradu 2001

**Additional**
1. Darinka Stanišić Sinobad, Slobodan Dodić Osnovi gnatologije – Praktikum, Univerzitet u Beogradu 2003

**Evaluation of students' work – Points per individual activity**

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<td>5.</td>
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<td>Asist dr Daniela Đurović Koprivica</td>
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Head of the Department  
Prof. dr Đorđe Petrović
11. PHYSIOLOGY (StII-FIZO)

STUDY PROGRAMME Integrated studies in dentistry
DEPARTMENT Department of physiology
NAME OF SUBJECT PHYSIOLOGY
STATUS OF THE Compulsory

Condition none

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Methods of conducting teaching Lectures. Practical work.

GOAL
The main objectives of education in physiology are to introduce students to the basic functioning of organs and organ systems and their forms of organization in complex functional systems.

PURPOSE

Knowledge
Introducing students to the basic mechanisms of various organ systems and complex regulatory mechanisms of homeostatic parameters into functional systems. Introduction to the complex nervous and humoral regulatory mechanisms of various functional systems.

Skills
Students should master the general principles and rules of laboratory work. Students should become familiar with basic laboratory procedures and to acquire skills for performing daily laboratory tests. Students should gain insight into the work on animal models and with animal tissue used as a demonstration of some physiological phenomena. Student should be thoroughly acquainted with the manner of sampling and preparing blood and urine, and basic methods of laboratory analysis of blood and urine, which are used in everyday practice (sedimentation, hematorcit, erythrocyte count, leukocyte count, differential blood count, bleeding and coagulation time, the general features and chemical composition of urine). Students should master the basic electrophysiological methods (ECG, EEG, EMNG, EP), to gain experience of registration and to recognize the basic parameters registered. Student should be able to independently determine the arterial blood pressure and perform auscultation of the heart, to determine the respiratory volumes and capacities.

CONTENT OF THE SUBJECT:

Theoretical teaching – methodical units

1. INTRODUCTION IN PHYSIOLOGY: Functional organization of the human body and control of “internal environment”. The cells of the body as living units and their functions. Homeostatic mechanisms of major functional systems.
12. VEGETATIVE NERVOUS SYSTEM: sympathetic and parasympathetic centers: structure, classification, vegetative ganglia and their function, the specific mediators, Division of vegetative reflexes and the importance of dual innervations bodies.
**Practical teaching – methodical units**

1. Irritable tissues (theobase, chronaxie, effective performance time, anelectrotonus, catelectrotonus, polarization stream, Pflieger laws)
2. Muscles (simple and complex muscle contraction, summation, the impact strength of stimulating the size of contraction, maximal muscle contraction at different loads, ergography, the influence of temperature on fatigue and muscle contraction)
3. Breathing (model ribs, Donders model, spirometry, spiography, pneumography, Forced expyrogram, the composition of air)
4. Digestion (digestion in the mouth, digestion in the stomach)
5. The heart and circulation (control of heart rate, ECG, blood pressure, heart auscultation, polycardiography, capillary blood)
6. Blood (plasma buffer, sedimentation, hematocrit, hemolysis, No. of erythrocyte, No. of leukocytes, differential blood count, bleeding time and coagulation time)
7. Excretion (urine general characteristics, chemical composition of urine, urine sediment)
8. Analyzers (testing the senses of sight, hearing and balance, testing superficial and deep sensibility)
9. CNS (spinal reflexes decapitated frog, spinal shock, reflex port testing, clinical testing of important reflexes, EEG, neural activity, EMNG, EP, reaction time)

### RECOMMENDED READING

| **Compulsory** | 1. A. C. Guyton. Medicinska fiziologija  
2. D. Sterio i sar. Praktikum iz fiziologije |
| **Additional** | 1. V. Ivetić. Test pitanja iz fiziologije  
2. A. Despopulos, S. Silbernagl. Fiziološki atlas u boji  
3. V. M. Mujović. Medicinska fiziologija  
4. K. V. Sudakov. Fiziologija – osnovi i funkcionalni sistemi |

### Evaluation of students' work – Points per individual activity

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<th>Lectures</th>
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<td>3. Prof. dr Danko Filipović</td>
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<td>4. Prof. dr Nada Naumović</td>
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<td>5. Prof. dr Damir Lukač</td>
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<td>6. Doc. dr Miodrag Drapšin</td>
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<td>7. Doc. dr Oto Barak</td>
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<td>8. Doc. dr Dea Karaba Jakovljević</td>
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<td>9. Doc. dr Jelena Popadić Gaćeša</td>
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<td>11. Dr Vedrana Karan, saradnik</td>
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Head of the Department  
Prof. dr Danko Filipović
### Subject: Dental Prosthetics - Preclinical (StII-STPRP)

| Condition | Dental anatomy, gnathology (exam) |

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**Methods of conducting teaching:** Lectures + Pract.

**Knowledge**
- Student needs to know type of prosthesis, their purpose and manner of placement.

**Skills**
- Students should know how to take prints, how to produce and dentures.

#### Content of the Subject:

**Theoretical teaching – methodical units**

1. Anatomical imprint.
2. Functional imprint.
3. Obtaining of working model.
5. Determining the position of teeth in patients with toothless jaw relationship.
7. Preliminary positioning of artificial teeth.
8. Definitive tooth positioning. The final procedures in the preparation of complete dentures.
9. Restoring, corrections and relining of complete dentures.
10. Immediate total denture.
11. Suprathel total dentures.
12. Total denture - bases reinforced with metal skeleton.
13. General terms about toothless jaw.
15. Retention, stabilization, transfer of occlusal loads, and guidance of partial plate denture.
17. Retention, stabilization, transfer of occlusal loads and guidance of partial skeleton denture.
18. Application of the parallelometer in the planning and construction of partial dentures.
20. Construction of partial skeleton dentures in the laboratory.
21. Definition, goal and tasks of dental prosthetics.
22. Study models of individual molding spoons.
23. Conditions that define rational preparation.
24. Preparation of teeth for cast crowns (basic principles). Faceted tooth preparation for facet crowns (basic principles). Tooth preparation for ceramic replacement (basic principles).
25. Making working models for fixed compensation.
27. Root canal preparation.
28. Preparation of fixed cast restorations. Preparation of fixed compensation model for inlay into heat resistant mass.
30. Making the front and side bridges.
31. Application of parallelometer in making fixed restorations.

**Practical teaching – methodical units**

1. Anatomical imprint.
2. Individual spoon.
3. Functional imprint.
4. Bite imprints.
5. Setting the facial bow on the mannequin. Transferring models into the articulator.
6. Lining the front teeth. Lining of lateral teeth.
8. Coveting and polymerization and processing of finished dentures.
12. Transferring the design of the skeleton denture from the study model to the basic model.
13. Preparation of the basic model, doubling and creation of heat resistant model.
17. Preparation of teeth for faceted crown (demarcation of the preparation of half-channel and steps).
18. Preparation of teeth for ceramic crown. (demarcation of the preparation of step form with rounded internal angle, marked half-channel and step).
19. Protection of ground teeth.
24. Modeling caps for metal ceramic crown and metal ceramic crown with ceramic edge.
25. Modeling the skeleton of the front metal ceramic bridge in wax.

<table>
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<tr>
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</table>

1. **Prof. dr Ljubiša Džambas**
2. **Doc dr Tatjana Puškar**
3. **Doc. dr Bojana Milekić**
4. **Asist dr Aleksandra Maletin**
5. **Asist dr Danijela Đurović**
6. **Asist. dr Milica Jeremić-Knežević**

Head of the Department
Prof. dr Đorde Petrović
13. OPERATIVE DENTISTRY – PRECLINICAL (StII-BUSP)

<table>
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<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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**GOAL**

Acquisition of basic knowledge and skills related to Dental Pathology of dental hard tissue, diagnostic and therapeutic procedures for restoration of dental crown.

**PURPOSE**

Knowledge

- Biology of pulpo-dentine complex and its reaction to diverse stimuli. Etiopathogenesis of caries, diagnosis and classification of carious lesions, principles Cavity preparation, principles of restoration of dental crowns, materials for temporary and final reconstruction of dental crowns and accompanying instruments to work. With the knowledge of the materials for temporary and final reconstruction of the tooth crown as well as information on safety and hormonal substrates.

Skills

1. Conquering the way to access patient and techniques
2. Mastering the practical application of hand and mechanical instruments
3. Mastering the skills Cavity preparation
4. Conquering the principles of dental crown reconstruction with adequate instruments for
5. Adoption of the method of preparation and application of materials for temporary and definitive closure Cavity and application of protective and medicamentous basis.

**CONTENT OF THE SUBJECT**

- Biology of the pulp - dentin complex (composition and morphology of enamel, dentin and cement structure the pulp
- The reaction of pulp and dentin in preparation and restorative materials. Dental plaque
- Non-carious disorder of hard tooth tissue (abrasion, attrition, erosion, bruxism, tooth fracture)
- Cavity preparation for restorative esthetic fillings (I - V) classes
- Cavity preparation for the meet and indirect composite veneers
- Materials for temporary cavity closure
- Materials for lining and protection of the pulp - dentin complex
- Adhesive in restorative dentistry
- Glass ionomere cements
- Composite materials
- Amalgams
Practical teaching – methodical units

- Introduction to the topics and methodology of exercises
- Histomorphological structure of dental tissues, enamel caries, dentin and cement
- Working place, dental chairs, handpieces, instruments of labor, drilling bits
- Position of the therapist during work, direct and indirect labor
- Dry working field
- Black’s principles and deviation from Black’s principles
- Preparation of class I cavity on the occlusal surface of the premolars
- Preparation of class I cavity on the occlusal surface of the molars
- Preparation of class I cavity on the - foramen coecum, foramen molare
- Preparation of class II cavities – classic for amalgam, slot, tunnel
- Preparation of MOD cavities in teeth with vital pulp
- Preparation of MOD amalgam fillings on endodontically treated tooth.
- Preparation of class III cavity
- Preparation of class IV cavity
- Preparation of class V cavity
- Cavity preparation for indirect restoration and facets
- Instrumentation for setting temporary and definitive restorations, matrices, polishers
- Materials for temporary closure - theory and installation
- Protective and medicamentous bases - theory and installation
- Glass ionomer cements - theory and installation
- Setting two or multi-surface composite restorations. Definitive finishing of fillings
- Setting two or multi-surface amalgam fillings. Definitive finishing of amalgam fillings
- Setting MOD amalgam fillings on endodontically treated tooth. Definitive finishing of the fillings
- Practicing the acquired skills


Evaluation of students' work – Points per individual activity

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<th>Assis. Prof.</th>
<th>Associate Prof.</th>
<th>Full Professor</th>
<th>Scientist</th>
</tr>
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</table>

1. prof dr Ljubomir Petrović
2. prof dr sc Larisa Blažić
3. Doc dr Tatjana Brkanić
4. Doc dr Ivana Stojšin
5. Doc dr sci Igor Stojanac
6. Doc dr sci Milan Drobac
7. Assist. dr Bojana Ramić
8. Assist. dr Karolina Vukoje
9. Assist. dr Ivana Kantardžić
10. Student doktorskih studija Tijana Lainović
11. Student doktorskih studija Tanja Vukadinov

Head of the Department
Prof. dr Đorđe Petrović
### 14. ENGLISH LANGUAGE II (StII-STJE)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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<tr>
<td>DEPARTMENT</td>
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</table>

| Condition       | none                           |

**Methods of conducting teaching**  
Pract.: Conversation, grammar and lexicon training through tests and oral, visual and auditory methods, group and individual work; dramatization, demonstrations.

<table>
<thead>
<tr>
<th>Year of studies</th>
<th>Winter term (hrs/week)</th>
<th>Summer term (hrs/week)</th>
<th>No. of tests</th>
<th>No. of seminars</th>
<th>ECTS credits</th>
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<tbody>
<tr>
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**The main objectives of education in the English language are to introduce students to the importance of knowing one of the world's languages in order to communication, access to multiple data. No. of seminars and presentations in the field of professional topics. Mastering the skills for practical application of acquired knowledge into practice. Development of critical thinking and skills for scientific research.**

**CONTENT OF THE SUBJECT:**

**Theoretical teaching – methodical units**

**Introduction**
1. Introduction to the course, methodology and teaching principles

**Content**
2. The challenge of Prevention – text processing, lexica and grammar exercises, argumentation, discussion
3. Methods of prevention – text processing, lexica and grammar exercises, argumentation, discussion
4. Healthy Eating – text processing, lexica and grammar exercises, argumentation, discussion
5. Stress – text processing, lexica and grammar exercises, argumentation, discussion
6. Relaxation – text processing, lexica and grammar exercises, argumentation, discussion
7. Dangers of Smoking – text processing, lexical and grammar exercises, argumentation, discussion
8. Lung Cancer – text processing, lexical and grammar exercises, argumentation, discussion
9. Investigating Heart Attacks – text processing, lexical and grammar exercises, argumentation, discussion
10. Cholesterol – text processing, lexical and grammar exercises, argumentation, discussion
11. Heart Transplantation – text processing, lexical and grammar exercises, argumentation, discussion
12. Diabetes – text processing, lexical and grammar exercises, argumentation, discussion
13. Measles – text processing, lexical and grammar exercises, argumentation, discussion

**Grammar overview**
1. Past tenses – an overview of most frequently used past tenses/ focus on the use of past tenses
2. Present tenses – an overview of most frequently used present tenses/ focus on the use of present tenses
3. Future tenses – an overview of most frequently used future tenses/ focus on the use of future tenses
4. Passive voice – structure and use, comparing the passive voice in the mother tongue and English
5. Indirect speech - structure and use, declarative and interrogative sentences
6. Conditional sentences – structure and use, three types of conditional sentences

**Topics for discussion**
1. Student life – personal experiences, exchange of experiences, expectations and plans, future
2. Experiences with diseases/treatment – exchange of experiences, doctor/patient relationship, considering both aspects
3. Future – personal and general both on personal and professional level
4. Professional plans – specialization, possibilities for further development and promotion, professional improvement
5. Medicine today and tomorrow – personal perception of the profession, scientific issues

**Practical teaching – methodical units**

**RECOMMENDED READING**

### Additional Reading


### Evaluation of Students' Work – Points per Individual Activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final exam</th>
<th>Total</th>
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### List of Teachers and Assistants

- Associate
- Assistant
- Lecturer 2

- Assistant Prof.
- Associate Prof.
- Full Professor
- Scientist

1. Zoran Marošan, Lecturer
2. Vuk Marković, Lecturer

Head of the Department
Doc. dr. Dušica Rakić
### 15. GENERAL AND ORAL PATHOLOGY (StII-MB/HE)

<table>
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<tr>
<th>STUDY PROGRAMME</th>
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<td>DEPARTMENT</td>
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<td>NAME OF SUBJECT</td>
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**Condition**
- Anatomy, dental anatomy, histology and embryology

### Methods of conducting teaching

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<th>Year of studies</th>
<th>Winter term (hrs/week)</th>
<th>Summer term (hrs/week)</th>
<th>No. of tests</th>
<th>No. of seminars</th>
<th>ECTS credits</th>
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### GOAL
The aim of teaching the subject General pathology is to give the student knowledge about the mechanisms of damage, the cell tissues and organs and acquaint him with the morphological changes that are surface diseases. The task of training is teaching students to recognize the morphological changes in cells, tissues and organs of the adoption of the Knowledge of theoretical lectures, and the acquisition of his experiences microscopy and analysis of microscopic preparations.

Acquired Knowledge and Skills of General Pathology should provide easier learning oral pathology, a better understanding of the causes and mechanism of disease of mouth and facilitate learning the functional consequences of morphological changes.

### PURPOSE
**Knowledge**
- A student must learn the etiology and structural changes in the basic pathological processes such as metabolic disorders of water, fat, protein, inflammation, neoplasm, to overcome the pathology of the oral cavity is a very complex structure of the anatomical and physiological characteristics.
- Pathological processes in the oral cavity are very diverse and very important - of basic importance for doctors dentists: 1 Changes in the oral cavity as a manifestation of general and dermatological diseases;

**Skills**
- Conquering the interpretation pathohistological preparation by the student will be qualified to 1, at the level of light microscopy register changes that do not correspond to preserved cell and tissue. different material normal tissues and organs of the process and pathological conditions in tissues and organs, 2 material to describe the normal tissues and organs, 3 to describe the morphological substrate of the disease, 4 to set and write in Latin diagnosis. 5 state the differential diagnosis.

### CONTENT OF THE SUBJECT

#### Theoretical teaching – methodical units
2. Morphological changes of cell damage and death,
3. Disorders of blood circulation and lymph,
4. Disorders of growth and differentiation of cells,
5. Inflammation,
6. Tumor Pathology,
7. Pathology of the oral cavity,
8. Pathology of teeth and jaws,
9. Diseases of the periodontium,
10. Connective-tissue hyperplasia of oral mucosa,
11. Pathology of salivary glands.

#### Practical teaching – methodical units
1. Histopathology analysis and interpretation of products that illustrate the above theoretical methodical units: necrosis, disorders of metabolism of water, fat, protein, inflammation, tumors, most mouth disease

### RECOMMENDED READING

**Compulsory**

**Additional**
<table>
<thead>
<tr>
<th>Evaluation of students' work – Points per individual activity</th>
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<tbody>
<tr>
<td>Associate</td>
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<tr>
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1. Prof. dr Živka Eri
2. Prof. dr Nada Vučković
3. Prof. dr Zdravko Kosjerina
4. Prof. dr Dejan Vučković
5. Prof. dr Slavica Knežević-Ušaj
6. Doc. dr Milana Panjković
7. Doc. dr Tatjana Ivković Kapicel
8. Doc. dr Sandra Trivunčić
9. As. dr Zoran Nikin
10. As. dr Mirjana Živojinov
11. As. dr Aleksandra Lovrenški
12. As. dr Dragana Tegeltija
13. As. dr Snežana Božanić
14. As. dr Nened Šolajić
15. As. dr Miljan Milić
16. As. dr Golub Samardžija

Head of the Department
Prof. dr Slavica Knežević-Ušaj
## 16. PHYSIOPATHOLOGY (StII-PFIZ)

<table>
<thead>
<tr>
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<td>Theoretical Lectures, Laboratory Pract., Test</td>
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</tbody>
</table>

### GOAL

Training students for understanding the etiology and pathogenesis of diseases and disorders for understanding the origin and functions of body organ systems.

### PURPOSE

- **Knowledge**
  
  Acquiring knowledge about the etiologic factors and pathogenesis of the disease occurrence in humans. General laws disorders function in diseases, disorders of the special in individual organs and organ systems.

- **Skills**
  
  Students should be familiar with the basic principles of performance and how the interpretation of laboratory biochemical, hematological, and other immunometrical analysis and functional testing.

### THEORETICAL TEACHING – METHODOLOGICAL UNITS

- 1. Introduction to Pathophysiology
- 2. Etiologic factors of disease
- 3. Nonspecific and specific defense. Fever
- 4. Inflammation
- 9. Disorders of lipid metabolism and atherosclerosis
- 12. Eating disorders-obesity and malnutrition
- 13. Disorders of calcium and phosphorus metabolism
- 14. Parathyroid gland disorders
- 15. Disorders of pituitary and gonad axis
- 16. Disorders of the adrenal axis
- 17. Disorders of thyroid gland. General adaptation syndrome
- 18. Chemical factors in the disease
- 19. Disorders of metabolism of vitamins and enzymes
- 26. The effect of heat on the body
- 27. The effect of changes in air pressure on the body
- 28. The effect of cold on the body
- 29. Effect of mechanical factors, electrical, current and electromagnet. rays.
- 30. Effects of ionizing radiation on human body
- 33. Pathophysiology of the respiratory system – part 3.
- 34. Pathophysiology of nervous system
- 42. Pathophysiology of the digestive tract – part 2.
- 43. Pathophysiological changes in liver function – part 1.
- 44. Pathophysiological changes in liver function – part 2.
- 45. Malignant neoplasia as etiological factor in diseases
- 46. Pathophysiology of nervous system-pain, headache, disorders. transmission
- 47. Pathophysiology of the uropoietic system – part 1.
- 49. Pathophysiology of the uropoietic system – part 3.
- 52. Immune disorders as etiological factor of disease – part 2.
- 55. Disorders of bone metabolism
- 56. Pathophysiology of the locomotor system

### PRACTICAL TEACHING – METHODOLOGICAL UNITS

- 1. The basic functional testing of inflammation
- 2. The basic functional testing metabolic protein
- 3. Functional testing of the basic disorder of carbohydrate metabolism
- 4. Functional testing of primary disorders of lipid metabolism
- 5. Functional testing of the basic disorders of calcium metabolism and bone phosphorus
- 6. Functional testing of the thyroid gland
- 7. The basic functional testing of white blood lineage
- 8. Functional testing hemorrhagic syndrome
- 9. Functional testing hemostasis system in thrombosis
- 10. Functional testing of red blood lineage
- 11. Functional testing of the cardiovascular system
- 12. The basic functional testing of liver
- 13. The basic functional test. Digestive tract (stomach and pancreas)
- 14. The basic functional testing of the respiratory system
- 15. The basic functional testing of uropoietic system
### RECOMMENDED READING


### Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
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### List of teachers and Assistants

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<th>Scientist</th>
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1. Prof. dr Ferenc Dujmović  
2. Prof. dr Zoran Stošić  
3. Prof. dr Mirjana Đerić  
4. Doc. dr Nikola Ćurić  
5. Doc. dr Gorana Mitić  
6. Doc. dr Velibor Čabarkapa  
7. As. mr sc dr Radmila Žeravica  
8. As. mr sc Branislava Ilinčić  
9. As. mr sc dr Sunčica Kojić-Damjanov  
10. As. mr sc dr Biljana Vučković  
11. As. mr sc dr Ana Jakovljević  
12. As. mr sc Nevena Eremić  
13. As. dr Romana Mijović  
14. As. dr Veljko Crnobrnja  
15. As. dr Stanislava Nikolić

Head of the Department  
Prof. dr Zoran Stošić
## 17. MICROBIOLOGY AND IMMUNOLOGY (StII-M/I)

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### Year of studies

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### Methods of conducting teaching

Tests, theoretical and practical exams

### GOAL

To achieve a comprehensive understanding of the facts in the field of study in order to connect and apply the theory and practice

### PURPOSE

#### Knowledge

Theoretical preparation for the diagnosis and differential diagnosis

#### Skills

Preparing for work in practice, the choice of appropriate methods and their interpretation

### Theoretical teaching – methodical units


### Practical teaching – methodical units


### RECOMMENDED READING

2. Immunologija, Vera Jerant-Patić, Budućnost, Novi Sad 2002, 285 str
4. Medicinska parazitologija sa mikologijom, Tibor Lepeš, Medicinski fakultet, Novi Sad, 1988, 185 str
**Evaluation of students' work – Points per individual activity**

<table>
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<tr>
<th>Lectures</th>
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**List of teachers and Assistants**

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<th>Full Professor</th>
<th>Scientist</th>
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<tr>
<td>1. Prof. dr Marija Kulauzov</td>
<td>5. Prof. dr Ivana Hrnjaković-Cojetković</td>
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<tr>
<td>2. Prof. dr Mira Mihajlović-Ukropina</td>
<td>6. Doc. dr Gordana Bojić</td>
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<tr>
<td>3. Prof. dr Vesna Milošević</td>
<td>7. Doc. dr Vesna Gusman</td>
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<tr>
<td>4. Prof. dr Zora Jelesić</td>
<td>8. Asist. mr Deana Medić</td>
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Head of the Department:
Prof. dr Vesna Milošević
18. GENERAL PHARMACOLOGY (StII-FAR)

<table>
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<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department of pharmacology, toxicology and clinical pharmacology</td>
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<td>NAME OF SUBJECT</td>
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**Year of studies**

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<td>Theoretical Lectures and practical Pract.</td>
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</table>

**GOAL**

To give students basic knowledge about the drug as a substance, its movement through the body, the ways, mechanisms and site of action, types of side effects, interactions and poisonings.

**PURPOSE**

Knowledge

At the end of the teaching process, students should know why, how and when can be applied to a drug, its characteristics, movement through the body, place and mechanism of action and danger of its application.

Skills

- Student: must know how to correctly fill a prescription (Main, official, almost medicinal) and to explain;
- must know that the registers used drugs;
- must know to fulfill the registration form unwanted effects of the drug.

**CONTENT OF THE SUBJECT**

**Theoretical teaching – methodical units**

3. Moving the drug through the body. The passage of drugs through the biomembrane. Reabsorption and distribution of drugs. Excretion of drugs.
5. Pharmacokinetic models. Pharmacokinetic parameters.
8. Pharmacogenetics.
10. Toxicology. Poisons. Poisoning drugs.
11. Transmitters and receptors in the nervous system.
12. Vegetative nerve system. Drugs that act through receptors in the VNS.
13. Histamine and antihistaminics.
15. Drugs in the treatment of disorders and diseases of the respiratory system.
17. Thrombolytics, antaggregati drugs, anticoagulants.
19. Treatment of anemia.

**Practical teaching – methodical units**

3. Solid forms of drugs.
4. Liquid forms of drugs.
5. Semi-solid forms of drugs.
6. Inhalation.
7. Bandage material.
8. Prescribing drugs according to pharmacotherapeutic group.

**RECOMMENDED READING**

**Compulsory**


**Additional**

6. LEKOVI U PROMETU, OrtoMedics, Novi Sad, 2012 (i starija izdanja)
### Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
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### List of teachers and Assistants

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<th>Assistant prof.</th>
<th>Associate Prof.</th>
<th>Full-Professor</th>
<th>Scientist</th>
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Head of the Department
Prof. dr Momir Mikov
## 19. MEDICAL INFORMATICS (StII-IZPR)

<table>
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<td>1 test</td>
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</table>

### Methods of conducting teaching
- Lectures. Practical work in the computer classroom. Presentation of information systems and electronic bibliographic, index and full text databases. Online searching of databases and electronic resources.

### Commentary

The main goal of medical informatics education is the introduction to the scientific information, information systems and information technology used in medicine and healthcare.

### Knowledge

Introducing students: with scientific information, information systems in health and medicine, the application of information technology in medicine, with advances in information technology - applicable in medicine and health, with databases and electronic resources.

### Skills

Training students: to include the specific information systems in health care; to independently use the Internet, to independent database searching and electronic information sources and literature in electronic form, to use certain programs for writing and seminar presentation, professional and scientific papers.

### CONTENT OF THE SUBJECT:

#### Theoretical teaching – methodical units

1. Health information systems
2. Scientific information
3. Biomedical informatics research
4. Biomedical scientific information
5. Application of information technology for creating and searching databases and Knowledge Base
6. Electronic services COBISS KoRSON, GOOGLE
7. Internet
8. Application of information technology in medicine and health

#### Practical teaching – methodical units

1. Fundamentals of computer techniques
2. Information Systems
3. Find and search electronic resources
4. Searching bibliographic databases of abstract index
5. Search COBISS information services, Library Publications and Google,
6. Search full-text databases - electronic journals, monographs
7. Internet
8. Finding literature
9. Preparation of papers presentation in Power Point
10. Seminar paper

### RECOMMENDED READING

#### Compulsory


#### Additional

3. Lecture Notes in Medical Informatics, Springer-Verlag.
4. Journal: International Journal of Medical Informatics i Methods in Medical Informatics
5. Internet sources

### Evaluation of students' work – Points per individual activity

<table>
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### List of teachers and Assistants

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<tr>
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<th>Scientist</th>
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<tr>
<td>1. Prof. dr Petar Slankamenac, redovni profesor</td>
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<td>3. Prof. dr Duško Kozić, vanredni profesor</td>
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Head Lecturer
Prof. dr Jelena Mihaljev-Martinov
19. MICROSCOPIC LABORATORY TECHNIQUES IN MEDICINE (StII-IZPR)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
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**GOALS**

Students will learn the techniques for making microscopic histology preparations

**PURPOSE**

Knowledge

Principles of laboratory work, selection of fixative in working with biological materials, methods of processing of biomaterials for microscopic examination including specificities of simple and complex staining methods, the tissue culture in laboratory medicine, pathology of laboratory animals, norms and the prevention of the disease in working with laboratory animals.

Skills

Mastering skills in laboratory work with biological materials with special emphasis on accident prevention, preparing solutions used in laboratory work, preparing native and vital microscopic preparation, fixation and processing of various tissue samples (rinsing, dehydration, inclusion, molding), the use microtomes, staining of microscopic preparations, working with laboratory animals, preparation and maintenance of tissue cultures, mastering the autopsy technique on laboratory animals.

**CONTENT OF THE SUBJECT:**

**Theoretical teaching – methodical units**

1. Microscopy, history, types
2. Classification of toxins by WHO and the prevention of poisoning and accidents in the laboratory
3. Methods of tissue fixation, choice of fixative for light and electronic microscopy
4. Blood and tissue smears and prints, cytological characteristics of some samples, basophilia and eosinophilia as well as representatives of cytological structure
5. Microtomes and work with them (historical overview from Parkinje, manual, rotary, slide, cryotome)
6. Classification of histological stains, staining methods, simple staining
7. Complex staining
8. Selective staining, the most important cytochemical reactions
9. Bacteriological staining methods, simple and complex ones
10. Preparation of microscopic preparations of helminthes and arthropods
11. Tissue cultures
12. Biology and conditions of working with laboratory animals
13. Pathology of laboratory animals and the prevention antropozoonoses
14. Consultation for preparing the seminar paper and exam
15. Consultation for preparing the seminar paper and exam

**Practical teaching – methodical units**

1. Native and vitally stained microscopic preparations
2. Measuring using technical balance; pipetting and preparing of solutions; first aid in case of poisoning
3. Preparation of fixative, taking tissue sections, rinsing after fixation, dehydration
4. Staining according to Giemsa and Papanicolaou, leukocyte formula in laboratory animals
5. Molding in paraffin for classical histological technique, cutting the preparations using microtomes
6. Staining with toluidine, carmine red, determining the phases of extrus cycle in rodents
7. Hematoxylin and eosin staining, van Gieson staining
8. Peroxidase, iron etc.
9. Gram and Ziehl Nielsen staining
10. Methods for illumination metazoans using lactophenol et al.
11. Explantation, primary and continuous culture
12. Experimental animal disease models
13. Methods for autopsy diagnostics on laboratory animals
14. Writing a seminar paper
15. Pre-exam practicum

**RECOMMENDED READING**

Compulsory


Additional


**Evaluation of students’ work – Points per individual activity**

<table>
<thead>
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<th></th>
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</table>

1. Prof. dr Dušan Lalošević
2. Asist. dr Ivan Čapo

Head of the Department
Prof. dr Dušan Lalošević
19. HISTORY OF MEDICINE AND DENTISTRY (STII-IZPR)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
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Methods of conducting teaching: Video presentation and oral

Teach students to understand modern medicine not as a supreme scientific and practical achievement, but as a dynamic development of medical thinking.

Knowledge: To give students the basic Knowledge and critical look at the key periods of historical development of medicine and dentistry.

Skills:

CONTENT OF THE SUBJECT:

Theoretical teaching – methodical units
1. Historical overview of medicine and dentistry from the pre-history until 21st century.
2. Splendors of medical science, the founders of theoretical perspectives, diagnostic and therapeutic procedures.

Practical teaching – methodical units
1. Discussion of important dates in the history of medicine and dentistry.

RECOMMENDED READING

<table>
<thead>
<tr>
<th>RECOMMENDED READING</th>
<th>Compulsory</th>
<th>Additional</th>
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<tr>
<td></td>
<td>Maksimović J. Uvod u medicinu sa teorijom medicine, Medicinski fakultet Novi Sad, Novi Sad, 2011.</td>
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<td>Stanojević V. Istorija medicine, Medicinska knjiga, Beograd-Zagreb, 1953.</td>
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Evaluation of students' work – Points per individual activity

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List of teachers and Assistants

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</table>

Doc. dr Dušica Rakić
Ass. dr sci. med. Maja Grujičić
Ass. mr sci med. Gordana Vilotijević-Dautović,

Head of the Department
Doc. dr Dušica Rakić
20. INTRODUCTION TO RESEARCH SCIENTIFIC WORK (StII-MNIR)

<table>
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<tr>
<td>NAME OF SUBJECT</td>
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<tr>
<td>Methods of conducting teaching</td>
<td>Lectures, Pract., seminars</td>
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</table>

The aim of this course to emphasize the importance of research scientific work and to get students acquainted with the basic principles of biomedical research. The students should acquire sufficient knowledge to be able to independently analyze the research course and scientific work, as well as to design the research protocols. Students should get acquainted with all segments of scientific work and to be able to apply them independently in their own research.

### GOAL

Students will acquire the necessary knowledge to:
- make difference between science and pseudoscience
- define and identify the authorship and non-authorship
- be aware of ethical principles of research scientific work and immorality in the field of science
- identify the necessary conditions for scientific research
- understand the conception of scientific problem and be able to define it
- understand the conception of hypothesis and to be able to generate and confirm the hypothesis
- distinguish between diverse scientific publication and to know their characteristics
- identify electronic research bases, databases and electronic scientific journals
- understand basic features of descriptive method, cross sectional study, anamnestic studies, cohort studies as well as the experiment within the community and field experiment, identify their application, advantages and drawbacks, criteria for selecting the participants, generalization of the results, possibilities of posing and confirming the hypothesis
- understand the importance of various statistical methods in medical research, as well as the methods of interpreting statistical significance
- identify different measurement errors (bias) and understand their effects on the results of research scientific work
- understand basic principles of clinical trials, selection of participants and conducting of the study, as well as the specificities of clinical testing of drugs
- understand the conception of scientific project, how it is prepared, reviewed, conducted and evaluated, as well as to know its components and phases
- identify the methods of data collection and their further processing
- understand the structure of a scientific paper
- understand the conception of citation and referencing and correctly applying reference citation rules
- understand the criteria for evaluating scientific paper

### KNOWLEDGE

- define the investigated population
- define the way of creating experimental and control groups
- identify the measurement errors if any and to understand and interpret their effect on the obtained results
- design the protocol of a clinical trial
- design the instruments for data collection
- design the draft of a scientific project
- create the draft of the professional study
- properly cite the references pursuant to relevant citation rules
**Theoretical teaching – methodical units**

2. Scientific problem
3. Scientific hypothesis
4. Biomedical and scientific informatics
5. Citation of scientific references
6. Descriptive method
7. Cross sectional studies
8. Anamnestic studies
9. Cohort studies
10. Clinical trials
11. Clinical investigation of drugs
12. Statistical bias
13. Data collection
14. Sampling
15. Types of scientific work
16. Evaluation of scientific paper
17. Mentorship
18. Interpretation of statistical result in the research
19. Ethical principles of medical research
20. Scientific project
21. Presenting of results of RSW
22. Structure of RSW
23. Authorship and intellectual dishonesty

**Practical teaching – methodical units**

- Difference between science and pseudoscience
- Selection of scientific problem
- Posing hypothesis
- Electronic databases
- Reference citation
- Descriptive studies
- Cross sectional studies
- Anamnestic studies
- Cohort studies
- Clinical trials
- Statistical bias
- Presenting the results of RSW
- Scientific project
- Questionnaires and sampling
- Interpretation of statistical results

**RECOMMENDED READING**

|------------|----------------------------------------------------------------------------------------|

**Evaluation of students’ work – Points per individual activity**

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<th>Lectures</th>
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**List of teachers and Assistants**

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<tr>
<th>Associate</th>
<th>Assistant</th>
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1. Prof. dr Mirna Đurić
2. Prof. dr Aleksandar Rašković
3. Doc. dr Predrag Đurić
4. Doc. dr Branimir Bajkin
5. Doc. dr Milan Matić
6. Doc. dr Zorica Gajnov
7. Doc. dr Slobodan Savović
8. Doc. dr Tihomir Dugundžija
9. Doc. dr Janko Pasternak
10. Doc. dr Vesna Stojanović

11. Assist. dr sci. Maja Grujičić
12. Assist. dr Dragan Nikolić
13. Assist. de Smiljana Rajčević
14. Assist. dr Mišlja Ristić
15. Assist. dr sci. Daniela Marić
16. Assist. dr Nebojša Stilinović
17. Assist. dr Boris Milijašević

Head of the Department
Doc. dr Dušica Rakić
20. COMPUTER USE IN DENTISTRY (StII-MNIR)

<table>
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<tr>
<th>STUDY PROGRAMME</th>
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| Condition | Medical Statistics and Informatics |

**Year of studies** | **Winter term (hrs/week)** | **Summer term (hrs/week)** | **No. of tests** | **No. of seminars** | **ECTS credits** |
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**Methods of conducting teaching** | Lectures, Pract., seminars

**Goal**

To get students acquainted with the application of computing technologies in modern dentistry practice

**Purpose**

Knowledge

The students will get acquainted with the application of computers in determining the teeth color, position and movement of the lower jaws, analyzing the occlusion contacts and planning and performing fixed prosthetic procedures.

Skills

**Content of the subject**

- **Theoretical teaching – methodical units**

  - Introduction, application of computers in dentistry, computers and management, databases: expert systems, simulation procedures – diagnostic and therapeutic
  - CAD-CAM systems, function and application
  - CAD-CAM systems, computed inspection, designing and producing dental replacements, machine processable materials
  - One step tooth replacement
  - Specificities of particular CAD-CAM systems
  - Application of computing technologies in determining the teeth color, specificities of digital imaging
  - Application of computers in gnathology, analysis of occlusion contacts, comp, analysis of lower jaw movements
  - Application of computers in implantology, computer-guided installation of dental implants and dental replacements on implants
  - Application of computers in endodontics
  - Patient processing and creation of relevant database
  - Intraoral and extraoral photographing
  - Diagnostics of the malocclusion – analysis of the model and the photograph
  - Computer simulation of the treatment plan
  - Computer simulation of the orthodontic-surgical treatment
  - Computer generated analysis of the growth

- **Practical teaching – methodical units**

  - Production of seminar papers

**Recommended reading**

- Compulsory: Aleksandar Todorović „Primena CAD/CAM tehnologije u stomatološkoj protetici“ 2005, Beograd
- Additional: Internet, Kobson databases

**Evaluation of students’ work – Points per individual activity**

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<thead>
<tr>
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</table>

Prof. dr Dubravka Marković
Doc. dr Tatjana Puškar
Doc. dr Igor Budak-Faculty of Technical sciences
Asist. dr Aleksandra Maletin
Asist. dr Daniela Durović Koprivica
Asist. dr Milica Jeremić Knežević
Asist. res. dr Michal Potran

Head of the Department
Prof. dr Đorđe Petrović
20. EXPERIMENTAL ANIMALS AND EXPERIMENTAL PHARMACOLOGY IN MEDICAL RESEARCH (StII-MNIR)

<table>
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<th>STUDY PROGRAMME</th>
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<td>Pract.</td>
<td>Lectures</td>
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Methods of conducting teaching: Lectures, Pract., seminars

GOAL

To get students acquainted with the methods, possibilities and conditions of working with experimental animals in biomedical research

PURPOSE

Knowledge

- The students will get acquainted with conditions and possibilities of working with experimental animals and particular experimental models of importance for in vivo biomedical research. The students will get informed on legal regulations pertaining to protection of welfare of experimental animals, animal models and species used in particular investigations, the housing and care of experimental animals, application of investigated substances, monitoring the effects of applied substances, euthanasia and safe disposal of residual/wast material.

- The students will be trained for experimental work with experimental animals (handling, administration of substances, sampling of biomaterial, anesthesia, monitoring of stress and pain parameters...) as well as for creating relevant documentation aimed at obtaining necessary approvals for experimental work with laboratory animals.

Skills

- The students will get informed on legal regulations for protection of the wellbeing of experimental animals in biomedical research – experimental models – non anesthetized animals
- Euthanasia and risks in working with experimental animals

CONTENT OF THE SUBJECT

1. Legal provisions and framework of protection of the wellbeing of experimental animals in biomedical research
2. Ethical principles in working with experimental animals
3. Rules “3-R” and “5 freedoms” in working with experimental animals
4. CCAC category of invasiveness in animal experimentation
5. Alternative methods of in vivo experiments
6. Laboratory (experimental) animals – categorization and nomenclature, species
7. Maintenance of experimental animals – housing, feeding, hygiene maintenance, health status monitoring (stress, pain)
8. Animal models – definition, requirements, selection
9. Basic rules of working (handling) with experimental animals – keeping, labeling, administration of experimental substances, sampling of the materials for analysis
10. Experimental models – non anesthetized animals
11. Experimental models - anesthetized animals
12. Euthanasia and risks in working with experimental animals

Theoretical teaching – methodical units

1. Preparing the Request for approval of the experiment on laboratory animals to the Ethics Committee, pursuant to relevant legislation
2. Getting acquainted with the maintenance of laboratory animals - practical work
3. Skills for handling laboratory animals – practical work (housing, labeling, administration of experimental substances, sampling of materials for analysis)
4. Designing an experimental model in line with the Request to Ethical Committee (research plan that foresees the use of experimental animals)
5. Practical handling of the material of animal origin (samples, carcasses of sacrificed animals), substances and equipment used in the experimental research

Practical teaching – methodical units

RECOMMENDED READING

Compulsory

4. Pravilnik o uslovima za upravljanje životinjama (Službeni glasnik RS, br 39/10).

Additional


Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final exam</th>
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<td>Lectures</td>
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- Lectures: 0
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- Seminar paper: 0
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<tr>
<td>1. Prof. dr Ana Sabo</td>
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<tr>
<td>2. Prof. dr Momir Mikov</td>
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<td>3. Prof. dr Aleksandar Rašković</td>
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1. Asistent mr sc. med. Saša Vukmirović
2. Asistent dr Boris Milijašević
3. Asistent dr Nebojša Stilinović
4. Asistent dr Vesna Mijatović
5. Asistent dr Ivan Čapo

Head of the Department
Prof. dr Momir Mikov
### STUDY PROGRAMME
Integrated studies in dentistry

### DEPARTMENT
Department of pharmacology, toxicology and clinical pharmacology

### NAME OF SUBJECT
SPECIAL PHARMACOLOGY

### STATUS OF THE SUBJECT
Compulsory

Condition: Microbiology and Immunology (exam), General Pharmacology (exam)

### Year of studies
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### Methods of conducting teaching
Theoretical classes

### GOALS
1. Acquaint students with drug classes, representatives, indications and contraindications.
2. At the end of the teaching process, students should know why, how and when to apply the drug, to know the characteristics of drugs, its circulation through the body, sites and mechanism of action and potential hazards of its application.

### SKILLS
Student should be able to independently write the prescription.

### CONTENT OF THE SUBJECT:

#### Theoretical teaching – methodical units
1. Antimicrobial agents.
2. Antimycotics, Antivirals, Antiparasitic drugs.
3. Antiseptics and disinfectants.
5. Drugs in the treatment of disorders and diseases of the endocrine system.
7. Treatment of osteoporosis.
8. General and local anesthesia.
11. Drugs in the therapy of CNS-disorders (antiepileptic drugs, psychopharmaka) of importance in dentistry.
12. Drugs in the therapy of degenerative CNS-disorders (antiparkinson drugs) of importance in dentistry.
13. Sedation in Dentistry.

#### Practical teaching – methodical units
- Antiseptics and disinfectants – practical application, concentration calculation, precautions during handling and application
- Fluoride preparations – dosage and calculation
- Elaborating the topics addressed during theoretical lectures and writing prescriptions
- Filling up the drug adverse reaction reporting forms

### RECOMMENDED READING

#### Compulsory

#### Additional
3. LEKOVI U PROMETU, OrtoMedics, Novi Sad, 2007 (i starija izdanja)

### Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final exam</th>
<th>Total</th>
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| | Pre-exam obligations | Final exam | Total |
|----------------------|------------|-------|
| Lectures | Pract. | Test | Seminar paper | Other | Pismeni | Oral |
| 5 | 10 | 2h20 | | | | |

### List of teachers and Assistants

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SPECIAL PHARMACOLOGY (StIII-KFAR)
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<th>Scientist</th>
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Head of the Department  
Prof. dr Momir Mikov
### 22. OPERATIVE DENTISTRY – CLINICAL I (StIII-BZUK)

<table>
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<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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<td>NAME OF SUBJECT</td>
<td>OPERATIVE DENTISTRY - CLINICAL I</td>
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<tr>
<td>STATUS OF THE</td>
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#### CONTENT OF THE SUBJECT:

**PURPOSE**

- **Goal of the subject**: is to teach the student for the treatment of diseases of hard dental tissue and dental pulp in clinical conditions.

**SKILLS**

- **Skills acquired during clinical practical teaching and independent work with the control of the working phases**. The course continues with advanced practical teaching in the next semester.
  1. **At the end of the practical course the student should:**
  2. **1. Be able to take the medical history of the patients**
  3. **2. Be able to perform diagnostic procedures** regarding to diseases of hard dental tissue and dental pulp
  4. **3. Be able to prepare the working area, equipment, instrumentation and apparatus in dental practice**
  5. **4. Master the theoretical and practical knowledge of materials for temporary and definitive cavity closure**
  6. **5. Be able to theoretically and practically demonstrate all methods of cavity preparation and restoration of hard dental tissues**

### Theoretical teaching – methodical units

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction – preparing for clinical work</td>
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<tr>
<td>2</td>
<td>Biology of teeth.</td>
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<tr>
<td>3</td>
<td>Structure and function of the pulp-dentin complex</td>
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<tr>
<td>4</td>
<td>Structure and function of dentin, changes associated with ageing</td>
</tr>
<tr>
<td>5</td>
<td>Diagnosis and diagnostic tools in dental pathology.</td>
</tr>
<tr>
<td>6</td>
<td>The mechanisms of emergence and perception of pulpdental pain</td>
</tr>
<tr>
<td>7</td>
<td>Local anesthesia in restorative dentistry</td>
</tr>
<tr>
<td>8</td>
<td>Histopathology of pulp-dentin complex</td>
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<tr>
<td>9</td>
<td>Defense and reparatory processes of the pulp-dentin complex</td>
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<tr>
<td>10</td>
<td>Exposed dentin and protection procedures – etiology and pathogenesis of non-curious changes</td>
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<tr>
<td>11</td>
<td>Exposed dentin and protection procedures – diagnostic and therapy plan for non-curious changes</td>
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<tr>
<td>12</td>
<td>Reversible changes in dental pulp – pulp regeneration</td>
</tr>
<tr>
<td>13</td>
<td>Deep caries – histopathology and clinical picture</td>
</tr>
<tr>
<td>14</td>
<td>Deep caries - diagnosis and differential diagnosis, therapy plan</td>
</tr>
<tr>
<td>15</td>
<td>Treatment of deep caries and materials for indirect capping</td>
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<tr>
<td>16</td>
<td>Treatment of deep caries – one-step and multi-step therapy</td>
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<tr>
<td>17</td>
<td>Thrombotic and artificial dental pulp injuries</td>
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<tr>
<td>18</td>
<td>Open pulp therapy, materials for direct pulp capping</td>
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<tr>
<td>19</td>
<td>Pulp wound healing, the course, prognosis and evolution and control</td>
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<td>20</td>
<td>Minimum invasive procedures in restorative dentistry</td>
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<td>21</td>
<td>Pulp reaction to restorative procedures</td>
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<td>22</td>
<td>Postoperative teeth sensitivity – positive and negative characteristics of dental materials in relation to dental pulp</td>
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<td>23</td>
<td>Symptomatology and diagnosis of dental pulp diseases - odontalgia</td>
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<td>24</td>
<td>Classification of dental pulp diseases.</td>
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<td>25</td>
<td>Clinical picture of inflammatory process in dental pulp, course and prognosis</td>
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<tr>
<td>26</td>
<td>Treatment of teeth with reversible changes in the dental pulp</td>
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<tr>
<td>27</td>
<td>Techniques for preserving teeth vitality, indications and contraindications, the treatment plan.</td>
</tr>
<tr>
<td>28</td>
<td>Treatment of teeth with irreversible changes in the dental pulp</td>
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<tr>
<td>29</td>
<td>Techniques for preserving teeth vitality, indications and contraindications, the treatment plan.</td>
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<tr>
<td>30</td>
<td>Regressive and degenerative changes of pulp tissue.</td>
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<tr>
<td>31</td>
<td>Necrosis and gangrene of dental pulp</td>
</tr>
</tbody>
</table>

### Practical teaching – methodical units

- **Introduction to clinical work**, **working place**, organizing the working space and procedure itself
- **Basic procedures and phases in restorative dentistry**, **equipment and instrumentation**
- **Anamnesis**, Patient’s consent, Rights and responsibilities of the patient
- **Clinical examination**, entering data in dental records
- **Diagnosis of caries** (anamnesis, inspection, sticking probe)
- ** Diagnostic instruments and methods** (teeth vitality tests)
- **Preparing for clinical work** – fixing of instruments and hands in clinical settings
- **Cavity preparation for amalgam fillings of the 1st and 2nd class** (placing of the basis, matrix and inerddental pins, placement of definitive fillings)
- **MOD cavity preparation for amalgam fillings** (placing of the basis, matrix and inerddental pins, placement of definitive fillings)
- **Cavity preparation for adhesive-bond fillings of frontal teeth** – applying adhesive materials
- **Preparation and restoration of the 3rd class-cavity applying composite material and adhesive system without glass-ionomer cement base**
- **Preparation and restoration of the 3rd class-cavity applying composite material and adhesive system with glass-ionomer cement base**
- **Preparation and restoration of the 4th class-cavity applying composite fillings**
- **Preparation and restoration of complex 4th class-cavity applying composite fillings**
- **Preparation and restoration of the 5th class-cavity applying composite fillings in frontal teeth**
- **Preparation and restoration of the 5th class-cavity applying composite fillings in lateral teeth**
- **Application of composite fillings in lateral teeth – indications and contraindications**
- **Application of composite fillings in lateral teeth – adhesive preparation**
- **Cavity preparation for adhesive fillings and placement of dental adhesives**
- **Therapeutic procedure in deep caries** (diagnosis and treatment of deep carious lesions, placement of the materials for indirect capping of the pulp)
- **Final processing / finishing of definitive fillings**
### RECOMMENDED READING

<table>
<thead>
<tr>
<th>Compulsory</th>
<th>Additional</th>
</tr>
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<tbody>
<tr>
<td>2. Vitalna pulpa; U udžbeniku Endodoncija Endodontologija, Gunnar Bergenholc, Preben Hørsted-Bindslev, Orion, Beograd, 2011</td>
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<td>3. Oboljenja pulpe; U udžbeniku Endodoncija, V. Filipović i sar., 3. izdanje, Univerzitet u Beogradu 1996</td>
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<tr>
<td>5. Osnove zubnog karijesa (prevod) Kid E, Data Status, Beograd, 2010</td>
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### Evaluation of students' work – Points per individual activity

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### List of teachers and Assistants

<table>
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<tr>
<th>Associate</th>
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<tr>
<td>1. Prof dr Ljubomir Petrović</td>
<td>1. Asist. dr Bojana Ramić</td>
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<tr>
<td>2. Prof dr sci Larisa Blažić</td>
<td>2. Asist. dr Karolina Vukoje</td>
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<tr>
<td>3. Prof dr Tatjana Brkanić</td>
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<td>4. Doc dr Ivana Stojšin</td>
<td>4. Istraživač saradnik dr Milica Premović</td>
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<td>5. Doc dr Igor Stojanac</td>
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</table>

Head of the Department  
Prof. dr Đorđe Petrović
23. PREVENTIVE DENTISTRY (StIII-PRST)

STUDY PROGRAMME
Integrated studies in dentistry

DEPARTMENT
Department of dentistry

NAME OF SUBJECT
PREVENTIVE DENTISTRY

STATUS OF THE SUBJECT
Compulsory

Condition
Diseases of teeth—preclinics (exam)

Year of studies

Winter term (hrs/week) | Summer term (hrs/week) | No. of tests | No. of seminars | ECTS credits
--- | --- | --- | --- | ---
third | Lectures | Pract. | Lectures. | Pract. | - | - | 8.0

Methods of teaching
Lectures and Pract.

PURPOSE
The aim of the course is to get students acquainted with the methods of diagnosis and suppressing fear from the dentist. Students would be trained to diagnose the status of the patient and propose measures and methods for maintaining oral hygiene, to set indications and to apply prophylactic measures aimed at preventing oral diseases.

Knowledge
1. Comprehend and understand biological mechanisms of the protection of oral cavity
2. Comprehend and understand the etiopathogenesis of the most common oral diseases (caries, periodontitis, oral cancer, orthodontic anomalies, trauma)
3. Knowledge of complex interaction of oral and general health as well as numerous common risk factors (diet, bad habits - smoking, alcohol, drugs, using drugs, etc.)

Skills
1. Comprehend, understand and use methods for diagnosis and exclusion of risk for the occurrence of oral diseases
2. Comprehend and understand the role of nutrition in general and oral health and is able to provide competent advice on food security to the general oral health
3. Grasp, understand and properly use fluoride in preventing caries
4. knows and uses the methods of prevention and interceptive Orthopedics prophylaxis

THEORETICAL TEACHING – METHODOLOGICAL UNITS
Introduction to preventive dentistry. The role and potentials of oral hygiene in maintaining oral health
Socio-medical significance of oral diseases
The importance of communication with the patient in the prevention of oral diseases. Fear and anxiety.
Psychological types of children. Motivation of the patient.
Diagnostic status and habits in oral hygiene. Maintenance of oral hygiene
Methods of cleaning teeth, local application of fluoride prophylaxis of oral disease: definition, significance
Biological protective mechanisms in the oral cavity. Characteristics of healthy tissue in oral cavity (mucosa, gingival, periodontal tissue, enamel, pulp-dentine complexes, cement)
Clinical aspects of mouth and teeth development. Chronology of tooth eruption and replacement.
Protective role of saliva. Composition, physical and chemical protection, the role of remineralisation. Protective role. Clinical significance of stimulation of saliva secretion
Diagnostics, need of planning prophylaxis of oral diseases (periodontitis, caries, orthodontic disorders, injuries of the mouth and teeth).
Prophylactic measures in the prevention of periodontitis. Prophylactic measures in prevention of caries
Etiology of caries. Background research. Theory. Modern understanding. Primary and secondary factors in the etiology of caries
Dentine caries. Root caries
Nutrition and oral health. Influence of nutrition on teeth in the development and function. Sugar. Replacing sugar
Fluorides and oral health. Biokinetics. Toxicology. The mechanism of cariostatic effects. Application of fluoride in preventing caries
Diagnostics of potential risk of diseases of soft and supporting tissue. Risks for the emergence of periodontitis. Risks for the occurrence of oral cancer
Premature loss of milk teeth. Interceptive measures in preschool and school children
Contemporary developments and trends of preventive dentistry
Oral health during pregnancy – prevention
Application of chemoprophylactic measures
Etiology and prevention of teeth injuries
Minimum invasive caries therapies
Promotion of oral health and prevention of oral diseases
Practical teaching – methodical units

The importance, role and possibilities of oral hygiene in maintaining oral health. The problem of fear and anxiety. Admission of patients. Diagnostic habits in oral hygiene. Medical history, observing the patient during oral hygiene. Taking anamnestic data on oral hygiene, diagnosing habits, habits of control patients in oral hygiene (brushing teeth). The main means of oral hygiene – teeth brush. Introduction to interdental stimulators, toothpicks, devices with liquid jet etc.

Methods of cleaning teeth. Exercising methods for teeth cleaning on models.

The main instruments of oral hygiene – dental floss. Usage of dental floss.

Different types of dental teeth.

Training the techniques of dental floss use on the model, training patients to use dental floss.


Prophylaxis of caries by using fluoride.

Taking the history of nutrition, survey questionnaires, data evaluation and diagnosis of behavior related to oral health, motivation for proper nutrition and correction of errors in the diet.

Prescribing fluoride prescription. Local application of fluoride (solution, gel, glaze)

Evaluation of oral hygiene (PI), gingiva (GL bleeding index), tests for risk assessment.

Professional removal of soft and solid deposits from teeth. Training and motivating patients to maintain oral hygiene.

Fissure sealing.

Preventive teeth filling.

Chemoprophylaxis of mouth and teeth diseases.

Making intraoral flaps.

RECOMMENDED READING


EVALUATION OF STUDENTS' WORK – POINTS PER INDIVIDUAL ACTIVITY

<table>
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LIST OF TEACHERS AND ASSISTANTS

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1. Prof. dr Duška Blagojević
2. Doc. dr Ivan Tušek
3. Doc. dr Bojan Petrović
4. Doc. dr Sanja Vajkov

Head of the Department

Prof. dr Đorđe Petrović
24. RADIOLOGY (StIII-RAD)

STUDY PROGRAMME Integrated studies in dentistry

DEPARTMENT Department of radiology

NAME OF SUBJECT RADIOLOGY

STATUS OF THE Subject Compulsory

Condition General and oral pathology, dental disease-preclinics (exam)

<table>
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<th>Summer term (hrs/week)</th>
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<th>No. of seminars</th>
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</table>

Methods of conducting teaching Theoretical and practical classes

1. Introducing students to the diagnostic image modalities that are applied in modern medicine, introduction to x-ray methods and principles of working in the dento-maxillofacial region.

2. Knowledge The task is to define a set of diagnostic data based on the data necessary for understanding radiological information. Special attention should be paid to proper selection of indications and radiological methods.

3. Skills Students should master the art review on the X-ray apparatus, ultrasonographic examination, analysis of X-ray films, recordings, and computed tomography image analysis of magnetic resonance imaging.

CONTENT OF THE SUBJECT:

**Theoretical teaching – methodical units**

1. Fundamentals of medical application of ionizing radiation and the physics of image methods (X-ray, ultrasound, computerized tomography, magnetic resonance imaging), and intervention radiology 2. Principles of radiological examination (intraoral, extraoral, standard x-ray methods and special techniques, endoradiographic methods), 3 Implementation and indications for X-ray examination methods, computer tomography, ultrasound, magnetic resonance imaging, 4. Basic principles and indications for intraoral, standard extraoral radiographical methods, special techniques of radiography and interventional radiology, 5. Most common radiological symptoms of respiratory changes, digestive, urinary systems, acute abdomen, reproductive system (breast, female pelvis and male reproductive organs: prostate and scrotum), musculoskeletal and nervous system, acute abdomen in adult patients and children, 6. Radiological anatomy and symptoms in dento-maxillofacial region, dental anomalies 7. Congenital jaw anomalies, teeth and jaw diseases, X-ray diagnosis of facial bones and teeth fractures, radiological diagnosis of expansive jaw process, radiology of paranasal cavities, temporomandibular joints, salivary glands, radiotherapy of the maxillofacial region

**Practical teaching – methodical units**

1. Demonstration of X-ray appearance of standard apparatus and X-ray device for radiography of dental and maxillofacial region with insight into their work and monitoring the protected area., 2. Roentgenography and images obtained with computed tomography, 3. Practical work on ultrasound and image analysis, 4. Work on magnetic resonance analysis of the obtained scans, 5. Observing certain interventional radiology techniques

**RECOMMENDED READING**

Compulsory


Additional

1. Lukač I., Suščević D. Radiologija, udžbenik za studente medicine i stomatologije. Stilos 2000
2. Lazić J. Radiologija. Medicinska knjiga, 1997

Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
<th>Lectures</th>
<th>Pract.</th>
<th>Test</th>
<th>Seminar paper</th>
<th>Other</th>
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List of teachers and Assistants

<table>
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<th>Associate</th>
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1. Prof. dr Mira L. Govorčin
2. Prof. dr Dušan Hadnadev
3. Prof. dr Sanja Stojanović
4. Prof. dr Viktor Til
5. Prof. dr Duško Kozić
6. Prof. dr Robert Semnice
7. Prof. dr Miloš A. Lučić
8. Prof. dr Katarina Koprivšek
9. Doc. dr Dragana Bogdanović-Stojanović
10. Doc. dr Dragana Dilas-Ivanović
11. Doc. dr Olivera Nikolić
12. Doc. dr Viktorija Vučaj-Čirilović
13. Doc. dr Kosta Petrović
14. Doc. dr Jovan Lovrenski
15. Doc. dr Dijana Ničiforović
16. Ass mr Nataša Prvulović

Head of the Department
Prof. dr Sanja Stojanović
## 25. INTERNAL MEDICINE (StIII-INMD)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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</thead>
<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department of internal medicine</td>
</tr>
<tr>
<td>NAME OF SUBJECT</td>
<td>Internal medicine</td>
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<td>STATUS OF THE</td>
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<th>Condition</th>
<th>General and Oral Pathology, Pathophysiology, General Pharmacology</th>
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<td>Winter term (hrs/week)</td>
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| Methods of teaching | Theoretical and practical |

### GOAL

The main goal of education in internal medicine in Integrated studies in dentistry is getting acquainted with current theoretical practical professional knowledge from internal medicine and ability to apply the acquired knowledge in the professional practice and scientific research. Development of critical thinking, autonomy in the implementation of diagnostic and therapeutic procedures and the development of capacity for teamwork.

### PURPOSE

Students will acquire the necessary knowledge in the field of internal medicine - pulmonology, cardiology, hematology, gastroenterology and hepatology, nephrology and clinical immunology and be able to identify the disease and to apply appropriate treatment. Students should be able to manage severely and vitally endangered patients, to establish the diagnosis and to plan and implement the appropriate therapeutic procedures.

### SKILLS

Students are trained for individual and team work in recognizing the cardiovascular, pulmonological, nephrological, endocrinological, gastroenterological, hematological and oncologic disorders, as well as implementation of diagnostic and therapeutic procedures.

### CONTENT OF THE SUBJECT

<table>
<thead>
<tr>
<th>Theoretical teaching – methodical units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to propedeutics; Medical history</td>
</tr>
<tr>
<td>Introduction to propedeutics; physical examination</td>
</tr>
<tr>
<td>Hematopoiesis; Aplastic anemia;</td>
</tr>
<tr>
<td>Sideropenic, megaloblast and hemolytic anemia</td>
</tr>
<tr>
<td>Agranulocytosis; Myeloproliferative disorders;</td>
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<td>Myelodysplastic syndrome, acute and chronic leukemia;</td>
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<tr>
<td>Lymphomas; Multiple myeloma;</td>
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<tr>
<td>Hemorrhagic syndrome</td>
</tr>
<tr>
<td>Diseases of the hypothalamic - pituitary axis;</td>
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<tr>
<td>Diseases of the parathyroid glands and metabolic bone disease;</td>
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<td>Diseases of the thyroid gland;</td>
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<td>Carcinoma of the thyroid and parathyroid glands;</td>
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<tr>
<td>Obesity and hyperlipoproteinemia;</td>
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<tr>
<td>Etiopathogenesis, diagnosis and clinical diabetes;</td>
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<tr>
<td>Complications of diabetes;</td>
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<tr>
<td>Treatment of diabetes;</td>
</tr>
<tr>
<td>Clinical syndromes and classification, glomerulopathy;</td>
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<tr>
<td>Glomerulonephritis; acute RPGN, persistent and chronic</td>
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<tr>
<td>Acute and chronic pyelonephritis</td>
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<tr>
<td>Acute and chronic renal failure</td>
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<td>Immune disorders; Autoimmune diseases;</td>
</tr>
<tr>
<td>Pharmacological and nutritional allergies</td>
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<tr>
<td>Rheumatoid arthritis;</td>
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<tr>
<td>Examination of the abdomen, diagnosis of gastrointestinal tract</td>
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<tr>
<td>Diseases of the esophagus; A hiatus hernia; Gastritis; Stomach carcinoma;</td>
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<tr>
<td>Pepsic ulcer disease;</td>
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<tr>
<td>Diseases of the small intestine and colon;</td>
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<tr>
<td>Pancreatic disease; pancreatitis; carcinoma of the pancreas;</td>
</tr>
<tr>
<td>Liver disease; Hepatitis; Cirrhosis of the liver;</td>
</tr>
<tr>
<td>Diseases of the gallbladder; cholelithiasis; Cholecystitis;</td>
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<tr>
<td>Coronary heart disease and acute myocardial infarction;</td>
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<tr>
<td>Heart failure;</td>
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<td>Cardiomyopathy;</td>
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<td>A heart rhythm disorder;</td>
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<td>Arterial hypertension;</td>
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<td>Endocarditis and pericarditis;</td>
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<td>Clinical manifestations of lung disease;</td>
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<tr>
<td>Pathology and physiopathology of respiration; Chronic bronchitis;</td>
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<tr>
<td>Emphysema; bronchial asthma, respiratory failure and chronic pulmonary heart;</td>
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<tr>
<td>Infections of the lower respiratory tract;</td>
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<tr>
<td>Diagnostic methods in pulmonology and diseases of the mediastinum;</td>
</tr>
<tr>
<td>Lung tumor therapy;</td>
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<tr>
<td>Pulmonary thrombolysis;</td>
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<tr>
<td>Tuberculosis;</td>
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</table>

### CONTENT

Practical teaching – methodical units

1. Anamnesis (2 pract.)
   Physical examination: vital signs, general inspection, examination of the head and neck (1 pract.)
2. Diseases of the cardiovascular system (2 pract.)
3. Diseases of respiratory system (2 pract.)
4. Diseases of endocrine system and metabolic disorders (2 pract.)
5. Diseases of gastrointestinal system, liver and pancreast (2 pract.)
6. Diseases of kidneys and clinical immunology (2 pract.)
7. Diseases of hematopoietic organs (2 pract.)

### RECOMMENDED READING

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<th>Lectures</th>
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### Evaluation of students' work – Points per individual activity

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### List of teachers and Assistants

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<th>Assistant prof.</th>
<th>Associate Prof.</th>
<th>Full-Professor</th>
<th>Scientist</th>
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<td>Prof. Dr Mirna Durić</td>
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</table>

43. Doc. Dr Bojan Vujin
44. Doc. Dr Ivan Nikolić
45. Asist. Dr Tijana Ićin
46. Asist. Dr Jovanka Novaković Paro
47. Asist. Dr Radoslav Pejin
48. Asist. Ivana Baškin
49. Asist. Bojan Vuković
50. Asist. Dr Violeta Knežević
51. Asist. Dr Biljana Milić
52. Asist. Dr Gordana Stražmešter Majstorović
53. Asist. Milica Popović
54. Asist. Dr Zeljka Savić
55. Asist. Dr Tatjana Jocić
56. Asist. Dr Tihomir Orlić
57. Asist. Dr Violeta Mihajlović
58. Asist. Olgica Latinović
59. Asist. Dr Ivana Milošević
60. Asist. Dr Borisjek Sekalić
61. Asist. Ivanka Perčić
62. Asist. Dr Bogdan Bogdanović
63. Asist. Dr Dušanka Obadović
64. Asist. Dr Miroslav P. Iljić
65. Asist. Dr Bojan Zarić
66. Asist. Dr Tatjana Sarčevo
67. Asist. Dr Maliborka Bursač
68. Asist. Dr Marija Vukoja
69. Asist. Violeta Kolarov
70. Asist. Dr Miroslav Bickić
71. Asist. Dr Dragan Debeljački
72. Asist. Dr Vladimir Ivanović
73. Asist. Dr Dalibor Somer
74. Asist. Vladimir Vračarac
75. Asist. Žarko Knetić
76. Asist. Dr Andrejana Milanov
77. Asist. Dr Đorđe Popović
78. Teaching associate: Snežana Tadić
79. Teaching associate Ivana Kolarov Bjelobrk
80. Teaching associate Tijana Tadić
81. Teaching associate Milena Avramov
82. Teaching associate Marina Đokić

Head of the Department
Prof. dr Milica Medić Stojanoska
26. GENERAL MEDICINE (SHII-OMED)

<table>
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<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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<tr>
<td>Condition</td>
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### STUDY PROGRAMME

#### GOA
To introduce students with basic knowledge of the following items: dermatology, neurology, infectious diseases, pediatrics, psychiatry and gynecology, as well as introduction to the organization of primary health care and health centers, which will enable high quality and professional work after undergraduate.

#### PURPOSE

**Knowledge**

Students should acquire knowledge in these subjects that will enable them to perform reliable differential diagnosis of dental diseases. Also, they must acquire sufficient knowledge in the field of general medicine, which will provide basis to clinical courses in the process of study. Students should know the etiology, clinical picture of the disease, the necessary laboratory and other tests with a purpose of establishing the diagnosis, as well as basic principles of therapy.

**Skills**

Developing skills of conversation with patients, taking medical history and establishing the diagnostic hypothesis and differential diagnosis. Internal, neurological, psychiatric and pediatric examination, taking swabs of the ear, nose, skin changes, making microscopic preparations . . . Methods of lumbar puncture, puncture and incision of skin changes, administration of i. m and i. v. injection. Knowing how to interpret routine laboratory findings, bacteriological and virological findings, and x-ray etc. Distinguishing efflorescences on the skin. Identifying psychiatric and neurological conditions in patients.

#### CONTENT OF THE SUBJECT:

**Theoretical teaching – methodical units**

1. DERMATOLOGY:
   - Parasitic, fungal and bacterial skin diseases; viral skin diseases; Erythematousquamous dermatitis, Papulous dermatitis; Allergo dermatoses; Bullous dermatoses; Autoimmune skin diseases; Circumcure skin diseases; Skin Tumors; Changes in the mucous membranes in the mouth; Allergic changes in the oropharyngeal mucosa; Sexually transmitted diseases.

2. INFECTIOUS DISEASES:
   - The syndrome of angina; Infectious mononucleosis and herpes virus infections; Parotitis epidemica; Neuroinfections and meningal syndrome; tetanus and botulism; HIV and AIDS, General characteristics of viral infection; Viral hepatitis A, B, C, D and E.

3. NEUROLOGY
   - Cranial nerves; Headaches and neuralgia; Epileps; Cerebrovascular disease; Extrapyramidal disorders.

4. PEDIATRICS
   - Haemostasis disorders, allergy to local anesthetics and hereditary angioedem; Metabolic disease; Chronic diseases; Children with hereditary diseases and congenital defects; Physiology and pathology of saliva immunoscretion; Convolutions.

5. OB/GYN
   - Nutrition in pregnancy; Dental care during pregnancy.

6. HEALTH CENTER
   - Role of preventive and curative dental care institution

**Practical teaching – methodical units**

- Taking a medical history and interpretation of data; objective examination of the skin and visible mucous membranes; efflorescence; palpation of the regional lymph glands; vitopressure technique and interpretation of findings; skin scraping technique and the interpretation of findings; technique of taking material for native microscopic examination; electrocauterization techniques; excocleation techniques; the basic principles of local dermatological therapy.
- Medical history and epidemiological surveys; physical examination, with special emphasis on the examination of the head and neck; meningeal signs; exanthema and exanthema, prevention and prophylaxis of infectious diseases - and post-exposure prophylaxis, vaccination. Neurological examination; cranial nerves, cerebrovascular diseases, epilepsy; headaches and neuralgia Taking a psychiatric history; anxiety disorders; mood disorders.
- A history of pediatric patients; review of infant and child; haemophilia and thrombocytopenia; diabetes in dentistry; chronic diseases, allergic and immunologic disease, disorders of bone development.
RECOMMENDED READING

Compulsory


Additional

8. Vulović M. Preventivna stomatologija, Beograd, Draslar, 2005

<table>
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<tr>
<th>Evaluation of students' work – Points per individual activity</th>
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Clinic for Dermatovenerology

Prof. dr Verica Đuran
Prof. dr Marina Jovanović
Prof. dr Slobodan Stojanović
Prof. dr Zorica Gajnov
Prof. dr Sonja Prčić
Asst. dr Milica Subotić
Asst. dr Aleksandra Petrović
Asst. dr Zoran Golašin
Asst. dr Milana Ivković Simić
Asst. dr Ljuba Vojanović

Clinic for Infectious diseases

Prof. dr Vesna Turkulov
Prof. dr Jovana Jovanović
Prof. dr Milotka Fabri
Prof. dr Grozdana Canak
Prof. dr Jovan Vukadinov
Prof. dr Snežana Brkić
Prof. dr Dejan Cvetković
Prof. dr Radoslav Doder
Prof. dr Sandra Stevan-Milić
Prof. dr Sinisa Šević
Prof. dr Tomislav Preveden
Prof. dr Nadica Kovačević
Asst. dr Slavica Tomić
Asst. dr Maja Ružić
Asst. dr Daniela Marić

Clinic for Neurology

Milan Cvijanović,
Petar Slankamena,
Ksenija Božić,
Ivana Divjak,
Tamara Rabižić,
Aleksandar Kojitko,
Dragana Stefanović,
Zita Jovin,
Aleksandar Jovanović,
Aleksandar Jelić

Department of Psychiatry

Prof. dr Branislava Soldatović Stajić,
Prof. dr Mina Cvetković Bonjjak,
Asst. dr Dendi Siladi Mladenović,

Institute for Health Protection of Children and Youth

Prof. dr Jadranka Jovanović Privrodski
Prof. dr Jovan Vlaški
Prof. dr Nada Konstantinidis
Prof. dr Marija Knežević Pogančev
Asst. dr Gordana Vijatović Durić
Asst. dr Danijela Jokić Pavkov

Clinic for Gynecology

Prof. dr Aleksandra Novaković Milić

Health Center Novi Sad

Prof. dr Matilda Vojnović

\(^1\) If the student passes the test, the points are added to the points acquired at final exam

Head of the Department
Prof. dr Radoslava Doder
**27. DENTAL MATERIALS (SIII-STMT)**

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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**Methods of teaching**
Theoretical teaching. Practical teaching

**GOAL**
To introduce students with basic knowledge of characteristics of dental materials and basic principles of their clinical application.

**PURPOSE**
Students will acquire basic knowledge about the characteristics and clinical application of dental materials. They will be trained to select the adequate dental material with special emphasis on the identification of biocompatible materials that will not be harmful to the patient.

**Skills**
Training of methods and techniques of application of dental materials with special emphasis on working-time, setting time, consistency, mixing procedure...

<table>
<thead>
<tr>
<th>Theoretical teaching – methodical units</th>
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<tbody>
<tr>
<td>1. Standards for dental materials. EU directive, CE Mark, ISO standards, GCP, GMP standard</td>
</tr>
<tr>
<td>4. Thermal properties of the material. Thermal conductivity, thermal diffusivity, coefficient of thermal expansion. Adhesion. Intermolecular forces. Influence of intermolecular forces on the physical properties of the material.</td>
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<tr>
<td>10. Dental amalgam. Requirements, classification, amalgamation, clinical characteristics, the process of clinical work with amalgam, method of packaging, dosage and the factors that affect the quality of amalgam fillings. Materials for endodontic procedure.</td>
</tr>
</tbody>
</table>
Practical teaching – methodical units

2. Examination of physical properties of dental materials. Investigation of fatigue, fracture toughness and impact strength, viscosity and viscoelasticity.
4. Elastomeric impression materials. Practical work with hydrocolloids, silicones and polyether.
7. Acrylic materials for denture base. Practical work with acrylic material for denture base.
8. Acrylic materials for direct relining of the dentures (hard and soft acrylic reliners). Practical work with acrylic materials for direct and indirect relining of the denture.
9. Dental cements. Practical work with different types of dental cement.
10. Practical work with materials for application in dental restoration manufacturing using modern technology and computer – guided systems. Acquiring practical knowledge about the types of material and their application.
12. Dental amalgam. Practical work with dental amalgam.
14. The materials in endodontics. Practical work with materials which are used in endodontics. Materials for temporary filling. Practical work with materials for temporary fillings.

Recommended Reading

Compulsory

Additional

Evaluation of students' work – Points per individual activity

<table>
<thead>
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<th>Pre-exam obligations</th>
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<tr>
<td>2. Prof. dr Aleksandar Đorđević Faculty of Natural Sciences</td>
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<td>3. Doc. dr Igor Stojanac</td>
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<td>4. Doc. dr Milan Drobac</td>
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<tr>
<td>5. Doc. dr Igor Budak Faculty of Technical Sciences</td>
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<tr>
<td>6. Doc. dr Sebastian Balaš Faculty of Technical Sciences</td>
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<td>7. Doc. dr Bojana Milekić</td>
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<td>8. Doc. dr Bramislava Petronjićević</td>
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<td>9. Asist res Michal Potran</td>
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Head of the Department
Prof. Dr Đorđe Petrović
DENTAL ANESTHESIOLOGY (SiIII-STAN)

<table>
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Methods of conducting teaching: Theoretical, practical and video presentation

<table>
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<tr>
<th>CONTENT OF THE SUBJECT:</th>
<th>Theoretical teaching – methodical units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. The opening hour, the content and scope of the course, definition of local anesthesia and local analgesia – 1hr</td>
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<tr>
<td></td>
<td>2. Anatomy - innervation and osteology of face and jaw – 1hr</td>
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<td></td>
<td>3. Innervation zones of the upper and lower jaw – 1hr</td>
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<td>4. Accessories and equipment for local anesthesia - syringes, carpule-syringes, electronic syringe.pins, carpule-needles, ampules, carpules – 1hr</td>
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<td>5. Classification of local anesthetic and the indications for operation, superficial anesthesia – 1hr</td>
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<td>6. Infiltration (terminal) anesthesia in the maxilla – 2hrs</td>
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<td>7. Infiltration (terminal) anesthesia in the mandible – 2hrs</td>
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<td>8. Local complications during anesthesia – 1hr</td>
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<td>9. Local anesthetic solutions LAR, definition, structure, development, classification, pharmacological marking, – 1hr</td>
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<td>10. The mechanism of action of local anesthetics and desirable pharmacological properties – 1hr</td>
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<td>11. Systemic effects of local anesthetics, the absolute and relative contraindications for the application of a local anesthetic and a vasoconstrictor, the selection of anesthetic in patients at risk – 1hr</td>
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<td>12. Toxic reactions CNS and CVS to LAR protocol operation and treatment – 1hr</td>
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<td>13. Allergy to LAR, working protocol and treatment – 1hr</td>
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<th>Practical teaching – methodical units</th>
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<tr>
<td>1. Pre-clinical application of terminal anesthesia (video presentation) - 2hrs</td>
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<tr>
<td>2. Accessories for the application of local anesthesia (syringes, needles, ampoules and carpules) - 1hr</td>
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<td>3. The demonstration of the technique on patients - in both jaws - 3hrs</td>
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<td>4. Mandatory knowledge test (innervation zones, plexus anesthesia, conductive mandibular anesthesia, indirect method - 2hrs</td>
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<tr>
<td>5. Applying anesthesia in patients under supervision (each student should give at least one plexus anesthesia and conductive mandibular anesthesia by indirect method) – 7hrs</td>
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<table>
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<tr>
<th>RECOMMANDERED READING</th>
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<th>RECOMMANDERED READING</th>
<th>Additional</th>
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<th>Evaluation of students' work – No.of points per individual activity</th>
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<tbody>
<tr>
<td>Lectures</td>
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List of teachers and assistants

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<thead>
<tr>
<th>Associate</th>
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<th>Lecturer</th>
<th>Assistant Prof.</th>
<th>Associate prof.</th>
<th>Full Professor</th>
<th>Scientist</th>
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Prof. Dr Srećko Selaković
Doc. Dr Ivan Sarčev
Doc. Dr Branislav Bajkin
Head of the Department
Prof. dr Đorđe Petrović
## 29. ANAESTHESIA AND PERIOPERATIVE MEDICINE (StIII-APN)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department of surgery</td>
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<tr>
<td>NAME OF SUBJECT</td>
<td>ANAESTHESIA AND PERIOPERATIVE MEDICINE</td>
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<td>STATUS OF THE SUBJECT</td>
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<tr>
<td>Condition</td>
<td>General Pharmacology, Special Pharmacology (exam)</td>
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### Methods of conducting teaching
- Theoretical, practical and Seminars

### Content of the Subject:
- Preoperative evaluation and preparation of surgical patients.
- Specificities of general and regional anesthesia. Assessment and therapy of acute and chronic pain. Cardiopulmonary resuscitation.

#### Knowledge
- Lectures: 15
- Summer term (hrs/week): 100

#### Skills
- Lectures: 30
- Summer term (hrs/week): 65

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<th>Year of studies</th>
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<th>Summer term (hrs/week)</th>
<th>No. of tests</th>
<th>No. of seminars</th>
<th>ECTS credits</th>
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### Evaluation of students' work – Points per individual activity

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### List of teachers and Assistants

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1. Assist. Dr Gordana Jovanović
2. Assist. Dr Ana Uram Benka
3. Assist. Dr Arsen Uvelin
4. Assist. Dr Izabla Favri
5. Assist. Dr Teodora Božić
6. Assist. Dr Radmila Kosanović
7. Prof. Dr Ljiljana Gvoždenović
8. Prof. Dr Biljana Drašković
9. Doc. Dr Biljana Danević
10. Doc. Dr Milanka Tatić
11. Doc. Dr Dragana Radovanović
12. Doc. Dr Sanja Vlčković

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Head of the Department
Prof. dr Janko Pasternak
### STUDY PROGRAMME
Integrated studies in dentistry

### DEPARTMENT
Department of surgery

### NAME OF SUBJECT
SURGERY

### STATUS OF THE
Compulsory

| Condition | General and Oral Pathology, Pathophysiology, General pharmacology, radiology (exam) |

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<th>Year of studies</th>
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#### Methods of conducting teaching

1. Mastering the basic theoretical knowledge and skills in managing patients in all surgical branches.
2. Knowledge
   - Adoption of necessary knowledge in all surgical disciplines necessary for learning basic skills in the care of surgical patients.
3. Skills
   - Mastering the basic knowledge and practical skills necessary for the adoption of the care of surgical patients.

#### CONTENT OF THE SUBJECT:

- **Theoretical teaching – methodical units**
  1. Asepsis in surgery, surgical diagnosis and semiology
  2. Closed and open injuries
  3. Infections in surgery, thermal and electrical injury
  4. Surgical terminology and types of surgical procedures;
  5. Basics of abdominal surgery, abdominal trauma
  6. Basics of urology, basis of vascular surgery
  7. Basics of neurosurgery, neurotrauma
  8. Basics of orthopedic surgery, bone-joints injuries
  9. Basics of plastic and reconstructive surgery, replantation surgery
  10. Surgical principles in oncology
  11. Basics of thoracic surgery and neck surgery
  12. Basic characteristics of surgery of developmental period
  13. Organization of the management of injured patients
  14. War surgical doctrine, war wounds and specific war injuries

- **Practical teaching – methodical units**
  1. Principles, methods and means of sterilization, physical examination of surgical patients
  2. Access and initial management of injuries, surgical treatment of wounds
  3. Management of local surgical infection; initial management of patient with burns
  4. Operation room at work; implants in surgery
  5. Diagnostic and surgical treatment of patients with abdominal diseases and injuries
  6. Aspects of surgical treatment of patients with diseases and injuries of the urogenital tract; aspects of surgical treatment of patients with acute diseases and injuries of blood vessels
  7. Aspects of surgical treatment of injuries from the trauma of the central and peripheral nervous system
  8. Measurement in orthopedics; the aspects of prehospital, the initial hospital and surgical treatment of patients with osteoarticular injury
  9. Aspects of surgical treatment of injured or diseased patients in the field of plastic-reconstructive surgery and replantation surgery
  10. Methods for early detection of cancer
  11. Aspects of surgical treatment of patients with injuries and diseases of chest and neck
  12. Aspects of surgical treatment of patients and injuries in developmental period
  13. Management of the injured; categorization and priorities in the care of injured
  14. Organization of management of wounded patients in conditions of war, specific surgical treatment of war wounds

#### RECOMMENDED READING

- **Compulsory**

- **Additional**

#### Evaluation of students’ work – Points per individual activity

<table>
<thead>
<tr>
<th>Lectures</th>
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<th>Test</th>
<th>Seminar paper</th>
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<td>38. Doc. dr Svetlana Bakarica</td>
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<td>39. Doc. dr Aleksandar Komarčević</td>
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<td>5. Prof. dr Milan Stanković-Tomašev</td>
<td>41. Doc. dr Miloš Kolečin</td>
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<td>42. Doc. dr Biljana Daničić</td>
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<td>43. Doc. dr Janko Pasternak</td>
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<td>8. Prof. dr Danijela Marinović</td>
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<td>9. Prof. dr Jasenko Dozić</td>
<td>45. Doc. dr Aleksandar Redžek</td>
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<td>86. As. dr Vukadin Milankov</td>
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31. OTORHINOLARYNGOLOGY (STIII-ORL)

STUDY PROGRAMME | Integrated studies in dentistry
DEPARTMENT | Department of otorhinolaryngology
NAME OF SUBJECT | OTORHINOLARYNGOLOGY
STATUS OF THE | Compulsory

Condition | General and oral pathology, general pharmacology, radiology (exam)

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Methods of conducting teaching | Theoretical lectures, seminars, practical Pract.

GOA

Teach students to recognize the clinical picture, understand the etiology and pathogenesis of various pathological conditions, control of diagnostic procedures and therapy of diseases of the head and neck

KNOWLEDGE

In everyday clinical practice can recognize and treat many diseases of head and neck

SKILLS

To master the skills required for the conservative surgical treatment of diseases of the head and neck

CONTENT OF THE SUBJECT:

Theoretical teaching – methodical units

1. Anatomy and physiology of the ear. Diagnostics of ontological diseases.
2. Injuries of the ear. Foreign bodies of the external hearing canal and cerumen.
3. Acute inflammation of the outer and middle ear.
4. Chronic inflammation of the middle ear.
5. Otopathological complications.
10. Facial injuries.
13. Rare diseases of the nose and paranasal cavities. Tumors of the nose and paranasal cavities.
19. Tumors of the epipharynx and mesopharynx.
21. Laryngeal edema. Laryngeal paralysis. Laryngeal trauma.
22. Acute and chronic inflammatory processes of the larynx.
25. Foreign bodies of the laryngotracheal tree. Stenosis of the larynx and trachea. Coniotomy and tracheotomy.
30. Benign and malignant tumors of the salivary glands.

Practical teaching – methodical units

1. Introduction to practical otolaryngology classes. Anamnesis.
3. Examination of the nose, mouth and oropharynx, ear, larynx, neck.
4. Interventions in rhinology (extraction of foreign bodies of the nose, method of evacuation of secretions from the nose and sinuses according to Protz. Aerosol Therapy of rhinosinusitis. application of nose drops). X-ray of the nose and paranasal cavities - the interpretation of the results.
10. Stopping the nosebleed.
13. Interventions in the oral cavity and pharynx. Extraction of foreign bodies. Interventions in the oral cavity and throat, incision of the peritonsillar abscess.
15. Patients with throat tumors, muscle, biopsy of the tumor in oral cavity and pharynx. Diagnostic procedures and principles of surgical treatment of patients with throat tumors.


19. Impedancemetry, Tymanometry and typical curves, stapedius reflex

20. Examination of vestibular apparatus, orthostatic and dynastic tests, calorie test (Dix Hallpike), electronystagmography


24. Videostroboscopy, dysphonia treatment. Speech of patients underwent laryngectomy, laryngophone, esophageal voice and speech, vocal prosthesis.

25. Foreign bodies in the airways. diagnosis and therapy.

26. Tracheostomy, demonstration of surgical intervention, postoperative care of patients underwent tracheotomy, replacement of cannula.

27. Foreign bodies of the esophagus, diagnosis and extraction.


### RECOMMENDED READING

<table>
<thead>
<tr>
<th>Compulsory</th>
<th>Additional</th>
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### Evaluation of students' work – Points per individual activity

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### List of teachers and Assistants

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<tr>
<th>Professor</th>
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<th>Assistant</th>
<th>Lecturer</th>
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<th>Associate Prof.</th>
<th>Full Professor</th>
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<td>1. Prof dr Rajko Jović</td>
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<td>2. Prof dr Ljiljana Vlaški</td>
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<td>3. Prof dr Dragan Dankuc</td>
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<td>4. Prof dr Zoran Komazec</td>
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<td>5. Prof dr Gordana Mumović</td>
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<td>7. Prof dr Slробdan Savović</td>
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<td>8. Doc dr Vladimir Kljajić</td>
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<td>9. Doc dr Slobodanka Lemajić Komazec</td>
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<td>10. Doc dr Maja Buljčič-Cupić</td>
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</table>

1. Asist. mr dr Ljiljana Jovančević
2. Asist. mr dr Danijela Dragičević

Head of the Department
Prof. dr Zoran Komazec
### 32. PUBLIC HEALTH (StIII-JZDR)

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Integrated studies in dentistry</th>
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#### Condition: no

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#### Methods of teaching
- Lectures, practice, seminars

#### GOAL

**Purpose**
- Education of dentists in the area of promoting dental and oral apparatus health, health care of dental service customers and employees in dental health institutions. Introduction to the organization of health services.

#### PURPOSE

- Knowledge
  - In the field of health promotion, risk management in dental practice, health care of the employees, prevention of hospital acquired infections.
- Skills
  - Communications, health promotion, risk analysis, prevention of dental and oral apparatus disease.

#### COURSE CONTENT

**Theoretical teaching - methodical units**
- Reforms of the healthcare system
- Epidemiology of infectious diseases of importance for dentistry practice. Epidemiology of nosocomial infections.
- Viruses in the environment. Microbial safety of water. Microbiological safety of food and alimentary toxicoinfections (causative agents).
- Sterilization and disinfection in microbiology – practice.
- Health safety of drinking water. Disposal of hazardous waste in accordance with principles of hygiene.
- Occupational health disorders.
- Occupational hazards and risks.
- Protection and health promotion at the workplace

**Practical teaching - methodical units**
- Methods and instruments of health-educational work; demonstration of a creative workshop as a teaching method.
- Preparation and presentation of a health-education instruments and/or a method of health-education work.
- Designing of the action plan of health-education campaign and social marketing approach in the community.
- Presentation of national pathology.
- Prevention and control of infectious diseases in dental practice.
- Research models in nosocomial infections and demonstration of nosocomial epidemics research.
- Microbiological safety of herbal products used as auxiliary treatment in prevention and therapy of oral infections – seminar.
- Public health and hygiene
- Diet and oral health. Diet and oral health – seminar
- Hygienic requirements in dental practice – seminar
- Microbiological safety of the air – seminar.
- Expertise of working ability aimed at confirming occupational infectious disease.
- Expertise of working ability aimed at confirming occupational skin disease.
- Expertise of working ability aimed at confirming occupational injury caused by ionizing radiation.

#### RECOMMENDED
- **1. JAVNO ZDRAVLJE ZA STUDENTE STOMATOLOGJIJE.** Jevtić i saradnici. Univerzitet u Novom Sadu, Medicinski fakultet, Udbenici 94, Novi Sad, 2012
## Evaluation of student’s work – number of points for each activity

<table>
<thead>
<tr>
<th>Lectures</th>
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## The list of teachers and associates – Dept. of Social Medicine

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<tr>
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<td>9. Prof. dr Vera Grujić</td>
<td>10. Prof. dr Mirjana Martinov-Cvejin</td>
<td>11. Dr. dr Svetlana Kurek</td>
<td>12. Prof. dr Vesna Mitajević-Jovanović</td>
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## The list of teachers and associates – Dept. of Epidemiology

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## The list of teachers and associates – Dept. of Microbiology

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<td>3. Prof. dr Mira Mihajlović-Ukporna</td>
<td>4. Prof. dr Zora Jelić</td>
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## The list of teachers and associates – Dept. of Hygiene

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## The list of teachers and associates – Dept. of Occupational Medicine

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<tr>
<td>1. Ass. dr Milorad Španović</td>
<td>2. Prof. dr Nada Mačkova</td>
<td>3. Prof. dr Blaža Prokeš</td>
<td>4. Prof. dr Ivan Mikov</td>
<td>5. Doc. dr Marija Jevtić Vlahovitch</td>
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**Additional Reading**

2. EPIDEMIOLOGIJA, urednik Z. Radovanović, drugo izdanje, Univerzitet u Novom Sadu, Medicinski fakultet, Udžbenici 75, Novi Sad. 2008.
5. HIGIJENA ISHRANE, autora B. Novaković, M. Miroslav Vlahovitch, Edicija udžbenici, Medicinski fakultet u Novom Sadu 2005.
7. HIGIJENA, MEDICINSKA EKOLOGIJA I JAVNO ZDRAVLJE Miroslave Kristoforovitch-Ilić i saradnika, Ortopedici, Novi Sad, 2010 (u izdanju).

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**Head of the Department**

Prof. Dr Marija Jevtić
33. CLINICAL IMMUNOLOGY (StIII-IZPR)

STUDY PROGRAMME: Integrated studies in dentistry
DEPARTMENT: Internal Medicine
NAME OF SUBJECT: CLINICAL IMMUNOLOGY
STATUS OF THE SUBJECT: elective course

Condition: none

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Methods of conducting teaching: Lectures, practical work with patients in different hospitals, examination, diagnosis of immunological disorders, immune therapy caused illness, work in the laboratory of Immunology, allergology laboratory work, writing reports on immunological findings.

GOAL

The main goal of education in clinical immunology is to get students acquainted with the principles of outbreak of immune disease, diagnostic methods and principles and theoretical and practical aspects of the treatment of immunological diseases. The practical result of teaching is to enable the students to master the skills of practical work in practice, and to develop the critical and fact-conditioned thinking, and enable students to participate in scientific - research work in the field of immunology.

PURPOSE

Knowledge: Introducing students to the mechanisms and disorders of the function of immune system, as well as primary and environment-related genetic factors that may play a role in the development of immune diseases. The student will get acquainted with diagnostic methods in this group of diseases, the basic therapeutic methods in the treatment of immune diseases, as well as with the complications of the immunomodulatory and immunosuppressive therapy.


CONTENT OF THE SUBJECT:

Theoretical teaching – methodical units
1. Introduction to clinical immunology. Immunological diagnostics
2. Autoimmunity, SLE.
3. Vasculitis, RA and other inflammatory arthropathies
4. Rheumatology at child age
5. Glomerulonephritis
6. Immunodeficiency, Immunotherapy.
7. Endocrine diseases associated with immune processes.
8. Principles of personalized and translation medicine in demyelinating diseases and neurology
9. Allergic dermatosis
10. Transplant medicine in practice
12. Immunological changes in non-specific lung infections
13. Immunological features of granulomatous diseases
14. Allergy diseases of the ENT region.

Practical teaching – methodical units
Pract. are held as 2 one-week block of classes in the summer semester. The first week at the Clinic for Nephrology and Clinical Immunology KC Vojvodina, the second week, divided to the KCV Clinic for Dermatology, Clinic for ENT and the Institute for Pulmonary Diseases of Vojvodina.

1. Immunological laboratory; protein electrophoresis, radial immune diffusion, agglutination technique for detection of rheumatoid factor and C reactive protein
2. Immunological laboratory: indirect immunofluorescence (heterogeneous biological substrates, tissue culture, cell smear), immunofluorescence method for detection of immune complexes deposits in tissues, ELISA
3. Clinical examination of patients with immunological and rheumatoid diseases.
4. Clinical examination and treatment of patients with organ transplants.
5. Hypersensitivity skin test status, clinical examination of patients with skin manifestation of immune diseases, diagnosis and treatment.
7. Diagnosis and treatment of systemic atopic reaction (seminar)

RECOMMENDED READING


Jasmina Ljaljević i saadnici. Klinička imunologija
**Evaluation of students’ work – Points per individual activity**

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final exam</th>
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**List of teachers and Assistants**

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<tbody>
<tr>
<td>1. Prof. dr Igor Mitic</td>
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<td>2. Prof. dr Tatjana Ilic</td>
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<td>9. Prof. dr Milica Medić-Stojanoska</td>
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<td>10. Doc. dr Ivana Urosević</td>
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<td>11. Doc dr Lada Petrović</td>
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<td>12. Prof. dr Slobodan Pavlovic</td>
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Head of the Department  
Prof. dr Milica Medić Stojanoska
33. MEDICAL PSYCHOLOGY (StIII-IZPR)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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</thead>
<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department of psychiatry and medical psychology</td>
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<tr>
<td>NAME OF SUBJECT</td>
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Condition: none

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Methods of teaching: Theoretical and practical

GOAL

Introducing students to the unique bio-being of man, different reactions to the ill person's disease, as well as the different interactions of doctors / health workers and patients.

PURPOSE

Knowledge

Students gain knowledge about bio-unity of man; development and structure of personality, different mental mechanisms and defense mechanisms, reaction to the ill person's disease, the psychological aspects of the treatment / treatment of various diseases, the roles of doctors / health workers, mental health desirable than doctors / health workers with the patient and his nearest surroundings.

Skills

Student masters the art of communication with different groups of patients (as compared to the age of patients and in relation to the disease / condition for which it provides care) acquires the ability to meet a variety of psychological situations in which will be located during a career and build models of adequate coping. Working with the acquisition of skills is done through workshops where necessary active participation of students.

CONTENT OF THE SUBJECT:

**Theoretical teaching – methodical units**

1. The role of medical psychology in medicine-definition and objectives of the course
2. The concept / definition of the disease; patient and the community
3. Stigma, prejudice and discrimination
4. Psychical functions
5. The individual and the environment - a man as a biopsychosocial being
6. Development and structure of personality, personality theories
7. Defense mechanisms
8. Mental mechanisms and their role - aggression and anxiety
9. Stress and physical disease; health related models of behavior
10. Relation of the patient to doctor / healthcare professional
11. Sick child and adolescent as a patient
12. Adult age and the disease: psychological aspects of pregnancy and labour; job
13. Elderly and the disease
14. Psychological aspects of hospitalization
15. People with special needs - the relationship to other physical or mental diseases
16. Family Medicine - profile doctor / health worker in the family; team work
17. On death and dying; Terminal conditions, psychosocial aspect of the loss

**Practical teaching – methodical units**

1. Talk (communication) doctor / health worker with a sick person - Workshop
2. Health and disease - a workshop
3. Communication, empathy, professional attitude - shop
4. Approaching anxious and aggressive patient / patient escort
5. Giving information to patient and family about the disease
6. Communication of family doctors / health workers in the family
7. Preparing patients for diagnostic and therapeutic procedures
8. Relationships and communication in teamwork - Workshop

RECOMMENDED READING

<table>
<thead>
<tr>
<th>Compulsory</th>
<th>Additional</th>
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Evaluation of students' work – Points per individual activity

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<th>Lectures</th>
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## List of teachers and Assistants

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<tr>
<th>Associate</th>
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1. Prof. dr Dragan Mitrović
2. Prof. dr Gordana Mikić-Pankov
3. Prof. dr Olga Živanović
4. Prof. dr Aleksandra Nedić
5. Prof. dr Bratislava Soldatović Stajić
6. Prof. dr Mina Cvjetković Bošnjak
7. Doc dr Đenđi Siladi Mladenović
8. Doc dr Jasminka Marković
9. Ass dr Sanja Pleštivić

10. Asistent dr Vesna Vasić
11. Ass dr Sladana Martinović Mitrović
12. Ass dr Boris Golubović
13. Ass dr Vladimir Knežević
14. Ass dr Dragana Ranković
15. Ass Ksenija Kohundžija
16. Ass Valentina Sobot
17. Ass dr Josip Dadasović
18. Ass dr Milana Poznić Ješić
19. Teaching associate Jelena Mučibabić
20. Ass dr Sanja Pleštivić

### Head of the Department

Prof dr Olga Živanović
**33. DENTAL PREVENTION IN THE COMMUNITY (StIII-IZPR)**

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<tr>
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| Condition | none |

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**Methods of teaching**
- Theoretical and practical

**GOAL**
- Goals continue to ensure that the student after school in this election subjects improve their knowledge about the public health aspects of oral diseases, understand and accept the idea of the tasks of preventive dentistry and its role to significantly improve oral health in the community.

**PURPOSE**
- Knowledge
  1. Know, understand and accept the ideas and tasks of preventive dentistry;
  2. Knows and understands the meaning of the most important diseases of the mouth and teeth (caries, periodontitis, oral cancer, orthodontic anomalies, trauma, etc.)
  3. Knows the impact of social cultural and environmental factors that contribute to health or illness;
  4. Epidemiological methods of monitoring and evaluation of movement of certain oral diseases and national pathology in general;
  5. Understands the principles for the prevention of oral disease and promote oral health;
  6. Knows the importance and possibility of application of preventive measures at the level of the whole community;
  7. Understands and can choose the best strategy for the promotion of oral health in the circumstances, and
  8. Understands, accepts the principles and priorities the promotion of (oral) health as a basic commitment of all segments of society in improving oral health.

- Skills
  Organizes and conducts programs to prevent oral diseases in the local community.

**CONTENT OF THE SUBJECT**

**Theoretical teaching – methodical units**
- 2. Strategies in the prevention of diseases of mouth and teeth (conventional, modern, specific). Software protection in dental services
- 3. Promotion of oral health, health education, motivation of individuals and society.

**Practical teaching – methodical units**
- Topics of seminar papers for public defense in consultation with the candidates determined in the course of business seminars. Thread can be processed individually or groups up to 4 students.

**Evaluation of students’ work – Points per individual activity**

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</table>

1. **Prof. dr Duška Blagojević**
2. **Doc. dr Ivan Tašk**
3. **Doc. dr Bojan Petrović**
4. **Doc. dr Sanja Vajkov**

Head of the Department
- Prof. dr Đorđe Petrović

**RECOMMENDED READING**
- Compulsory
  Preventivna stomatologija, M. Vulović, Univerzitet u Beogradu, Stomatološki fakultet, 2005.
- Additional
33. EXPERIMENTAL PHARMACODYNAMIC METHODS IN EXPERIMENTAL ANIMALS (StIII-IZPR)

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Methods of conducting teaching: Lectures, PP presentations, case reports, discussions; Practical classes: interactive teaching

1. GOAL

To get students acquainted with basic principles of investigating pharmacodynamic characteristics and safety of ancillary medicinal products and dietary supplements

2. PURPOSE

Knowledge

- The students will get acquainted with basic principles of investigating pharmacodynamic, pharmacokinetic and toxicological characteristics of ancillary medicinal products and dietary supplements on experimental animals, based on principles of evidence-based medicine
- The students are expected to be acquainted with basic methods of testing pharmacodynamic, pharmacokinetic and toxicological characteristics of ancillary medicinal products and dietary supplements on experimental animals

Skills

- The students will get acquainted with the practical methods for testing the safety of the investigated substance in experimental animals
- The students will get acquainted with the experimental methods for identifying potential target-sites of action of the tested substances
- The students will learn about the importance of planning and start of pharmacodynamic investigation in experimental animals
- The students will get acquainted with the requirements for investigating interactions of ancillary medicinal products and dietary supplements with common drugs in experimental animals

3. CONTENT OF THE SUBJECT

Theoretical teaching – methodical units

1. Main characteristics of pre-clinical research
2. Experimental methods for identifying potential target-sites of action of the tested substances
3. Experimental methods for testing the safety of the investigated substance in experimental animals
4. Analysis of the data important for planning and start of pharmacodynamic investigation in experimental animals
5. Pharmacodynamic methods for examining effects of ancillary medicinal products and dietary supplements on glucose metabolism
6. Pharmacodynamic characteristics of ancillary medicinal products and dietary supplements
7. Experiments on laboratory animals investigating antioxidative and hepatoprotective characteristics of ancillary medicinal products and dietary supplements
8. Pharmacodynamic examination of effects of ancillary medicinal products and dietary supplements on CNS function
9. Pharmacodynamic examination of effects of ancillary medicinal products and dietary supplements on cardiovascular system function
10. Pharmacodynamic examination of effects of ancillary medicinal products and dietary supplements on digestive system function
11. Investigation of interactions of ancillary medicinal products and dietary supplement with common drugs in experimental animals
12. Safety of application of ancillary medicinal products and dietary supplement during pregnancy and lactation
13. Safety of application of ancillary medicinal products and dietary supplement in childhood
14. Safety of application of ancillary medicinal products and dietary supplement in geriatrics
15. Adverse effects of ancillary medicinal products and dietary supplements

Practical teaching – methodical units

1. Information sources on ancillary medicinal products and dietary supplement
2. Results of experimental trials of importance for assessment of safety of ancillary medicinal products and dietary supplements
3. Results of experimental trials on the effects of ancillary medicinal products and dietary supplements on endocrine system and metabolism functions
4. Results of experimental trials on the effects of ancillary medicinal products and dietary supplements on cardiovascular system functions
5. Results of experimental trials on the effects of ancillary medicinal products and dietary supplements on CNS functions
6. Results of experimental trials on interaction of ancillary medicinal products and dietary supplements with common drugs
7. Results of investigating antioxidative and hepatoprotective effects of ancillary medicinal products and dietary supplements
8. Seminar papers prepared by the students

4. RECOMMENDED READING

Compulsory

2. Đurić P. Uvod u naučno-istraživački rad, Medicinski fakultet Novi Sad, Novi Sad 2012.

Additional


5. Evaluation of students' work – Points per individual activity

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<th>Pre-exam obligations</th>
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1. Prof. dr Ana Sabo  
2. Prof. dr Jovan Popović  
3. Prof. dr Momir Mikov  
4. Prof. dr Zdenko Tomić  
5. Prof. dr Aleksandar Ratković (rukovodilac predmeta)  
6. Prof. dr Isidora Samojlik  
7. Doc. dr Olga Horvat  
8. Asistent mr sc. med. Saša Vukmirović  
9. Assist. dr Boris Milijašević  
10. Assist. dr Nebojša Stilinović  
11. Assist. dr Vesna Mijatović

Head of the Department  
Prof. dr Momir Mikov
### 33. RATIONAL DRUG APPLICATION IN PREGNANCY AND LACTATION (StIII-IZPR)

**STUDY PROGRAMME** Integrated studies in dentistry  
**DEPARTMENT** Department of pharmacology, toxicology and clinical pharmacology  
**NAME OF SUBJECT** RATIONAL ADMINISTRATION OF DRUGS DURING PREGNANCY AND LACTATION  
**STATUS OF THE** Optional  
**Condition** -

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**Methods of conducting teaching** Lectures, PP presentations, case reports, discussions; Practical classes: interactive teaching

**Goal**  
To get students acquainted with basic principles of pharmacotherapy during pregnancy and lactation

**Purpose**  
1. To get students acquainted with basic principles of drug application during pregnancy and lactation, with particular emphasis on the safety of pharmacotherapy; students will acquire knowledge on administration of drugs during pregnancy and lactation, which have proved safe and reasonable for application in this specific population according to the principles of evidence based medicine

**Knowledge**  
The students will get acquainted with basic principles of drug application during pregnancy and lactation, with particular emphasis on the safety of pharmacotherapy; students will acquire knowledge on administration of drugs during pregnancy and lactation, which have proved safe and reasonable for application in this specific population according to the principles of evidence based medicine

**Skills**  
The students are expected to be acquainted with basic principles of rational pharmacotherapy in the population of gravid women and women in lactation period

**Content of the Subject**

#### Theoretical teaching – methodical units

1. Selection of the drug according to the sex of the patient
2. Physiological characteristics of pregnant woman and the fetus affecting the pharmacokinetic and pharmacodynamic features of drugs
3. Physiological characteristics of pregnant woman and the fetus affecting the characteristics of drugs during lactation and period
4. Criteria for risk assessment and safety of drugs intended for application during pregnancy and lactation period
5. Classification of drugs into safety-categories related to their application during pregnancy and lactation period
7. Clinical trials on pregnant women.
8. Safety of the application of antihypertensive drugs during pregnancy and lactation
9. Safety of the application of anti-amaurotics during pregnancy and lactation
10. Safety of the application of antimicrobials during pregnancy and lactation
11. Safety of the application of drugs for the treatment of neuropsychiatric disorders (anxiolytics, antidepressants, antipsychotics and antiepileptics) during pregnancy and lactation
12. Prophylactic application of drugs during pregnancy
13. Rational pain therapy during pregnancy
14. Rational application of tocolytics and uterotonic
15. Effects of cigarette smoke, alcohol and drug misuse on the fetus and pregnancy

#### Practical teaching – methodical units

Information sources on safety of drugs applied during pregnancy and lactation period
Analysis of the results of preclinical studies of importance for assessment of safety of drugs to be applied during pregnancy and lactation
Analysis of the results of clinical trials of importance for assessment of safety of drugs to be applied during pregnancy and lactation
Case reports – paper patients addressing the application of drugs during pregnancy and lactation
Seminar papers prepared by the students.

**Recommended Reading**

**Compulsory**


**Additional**

### Evaluation of students' work – Points per individual activity

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<td>3. Prof. dr Momir Mikov</td>
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Head of the Department
Prof. dr Momir Mikov
34. CLINICAL PROSTHETICS I (StIV-KLPR)

**STUDY PROGRAMME** Integrated studies in dentistry

**DEPARTMENT** Department of dentistry

**NAME OF SUBJECT** CLINICAL PROSTHETICS I

**STATUS OF THE SUBJECT** Compulsory

**Condition** Dental prosthetics – preclinical, Dental materials (exam)

<table>
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**Methods of teaching** Theoretical and practical

**GOAL** Acquiring knowledge on basic biomedical and technological skills in mobile prosthetic dentistry as well as skills essential for clinical work in a conventional or implant-prosthetic therapy or partially or totally toothless jaws.

**CONTENT OF THE SUBJECT**

**Knowledge**

- The curriculum will provide student with knowledge on:
  - The importance of oral health and needs of mobile prosthetic therapy
  - Non-physiological and pathological conditions of stomatognathic system
  - Functional anatomy and physiology of partially or totally toothless jaw
  - Diagnostic procedures and laboratory tests relevant for the implementation of mobile prosthetic therapy
  - Setting indication and designing a corresponding plan of mobile prosthetic therapy
  - The impact of selected mobile prosthetic therapy on patient’s stomatognathic system and general health condition
  - Interconnection between laboratory and clinical procedures relevant for mobile prosthetics therapy
  - Materials and instruments as well as laboratory and clinical equipment and instrumentation
  - Selecting the type of material to be used for the mobile prosthetic therapy
  - Implementing mobile prosthetic therapy to the purpose of improving oral health for an acceptable and adequate time period
  - Relevant literature data with an aim of improving professional knowledge and its application in everyday practice

**Skills**

- Materials and processing technologies and their application in laboratory and clinical mobile prosthetics.
- Physiology of the stomatognathic system - normal function, diagnostics and mobile prosthetic treatment of temporomandibular disorders.
- Biomechanics of the stomatognathic system and effects of mobile prosthetic procedures on it
- Conventional mobile prosthetic therapy and rehabilitation of the stomatognathic system.
- Implant-prosthetic treatment of totally toothless jaw
- Clinical-epidemiological research on the possibilities of implementing mobile prosthetic therapy applying conventional procedures
- Knowledge and skills related to diagnostic, therapeutic and laboratory procedures are acquired through lectures, seminars and colloquia as well as through clinical practical work in small groups.


**ESTHETICS** of partial dentures.
**Total Dentures:** Anamnesis, status, clinical examination; Treatment plan; Preparing the patient for total denture treatment; Selection and evaluation of the molding spoon; Preparing imprint materials and taking the anatomical imprints. Testing and shaping individual molding spoons for toothless upper and lower jaws. Functional imprints of toothless jaw.

Determining jaw relations in the treatment with total dentures. Transferring and fixing of working models using the face bow; Working with mid-range articulators. Analyzing models and jaw relations in the articulator; Determining the shape, size and color of teeth. Controlling the teeth position in complete dentures; Functional and ESTHETIC factors and individual adjustments of teeth position. Delivery of finished complete dentures; Control and correction of the therapy. Reparing the fractures of the denture base; Direct and indirect rebasing of total dentures.

**Partial Dentures:** Preparation of the patient and working place for mobile-esthetic therapy; Filling out the Protocol/Records Analysis of X-ray images; Deciding about the treatment plan; Preparing the supporting tissue for partial denture. Selecting molding spoons; Making anatomical imprint of the upper and/or lower jaw; Plotting margins of mobile and immobile mucosa Analysis of study models; Classification of toothlessness Testing and shaping of individual molding spoons for partly toothless upper and/or lower jaw. Functional imprints. Planning the size of the partial denture basis; planning the method for stabilization and retention of partial denture; Determining the shape and technique of grinding denture elements in the combined therapy with partial dentures. Determining jaw relations in the treatment with partial dentures. Transferring and fixing of working models using the face bow; Working with mid-range articulators. Testing the model of partial denture; Clinical check-up of teeth position in partial denture. Delivery of finished partial dentures; Control and maintenance of partial dentures.

### RECOMMENDED READING

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### List of teachers and Assistants

<table>
<thead>
<tr>
<th>Associate</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>Professor</th>
<th>Assistant Prof.</th>
<th>Associate Prof.</th>
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</tbody>
</table>

1. Prof. dr Dubravka Marković
2. Prof. dr Ljubiša Džambas
3. Prof. dr Ljiljana Strajnić
4. Doc. dr Tatjana Paškar
5. Doc. dr Branislava Petronijević
6. Doc. dr Bojana Milekić
7. Asist dr Aleksandra Maletin
8. Asist dr Milica Jeremić Knežević
9. Asist dr Daniela Dušović Koprvica

Head of the Department
Prof. dr Đorđe Petrović
35. ORAL SURGERY (SIIV-OHIR)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
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</tr>
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<tbody>
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<td>DEPARTMENT</td>
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<tr>
<td>STATUS OF THE</td>
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<tr>
<td>Condition</td>
<td>Special Pharmacology (exam), Radiology (for exams), dental anesthesiology (exam), Surgery (exam)</td>
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<table>
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<tr>
<th>Year of studies</th>
<th>Winter term (hrs/week)</th>
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<th>No. of tests</th>
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<td>Lectures, Pract. opening, working pract., demonstration pract.</td>
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**GOAL**

Mastering the knowledge in the field of dentogenic infections, dental traumatology and alveolar extensions, pre-prosthetic surgery, surgical orthodontic cooperation, painful conditions of the trigeminal nerve, and the basic skills for administering local anesthesia and tooth extraction.

**Knowledge**

Diagnosis of pathological conditions and determining the surgical indications for oral procedures. Prevention of complications associated with tooth extraction and administration of local anesthesia; treatment modalities.

**Skills**

Training for independent administration of local anesthesia and common tooth extraction. Performing intraoral vestibular incisions.

**Theoretical teaching – methodical units**

1. Introduction. The concept and objectives of oral surgery. Role of oral surgery in dental care system and education of students.
3. Tooth extraction. Indications and contraindications for tooth extraction. Principles of tooth extraction. The stages of uncomplicated tooth extraction.
4. Tooth extraction. Instruments for tooth extraction (pliers, levers). Extraction of individual teeth.
13. Dentogenic infection. Basic therapeutic principles (drugs and surgical treatment).

**CONTENT OF THE SUBJECT**

2. Designing of incisions in dental alveolar surgery. Indications and contraindications for the selection of the incision.
4. Impacted supernumerary teeth. Classification. Indications and contraindications for extraction.
**Practical teaching – methodical units**

2. **Test (3 hours) - Innervation zone. Techniques giving plexus anesthesia and mandibular anesthesia indirect method.**
3. **Test (3 hours) - history, examination instruments, dental extraction, tooth extraction.**
4. **Practical work with patients (60 hours) – An overview. Diagnostics. X-ray analysis. Anesthesia. Tooth extraction. Complications management. Treatment of acute dentogenic infections.**
5. **Demonstration Pract. (9 hours) – Demonstration and assisting when performing oral surgical procedures in the operating room.**

### RECOMMENDED READING

<table>
<thead>
<tr>
<th>Compulsory</th>
<th>Additional</th>
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### Evaluation of students' work – Points per individual activity

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<th>Lectures</th>
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<th>Seminar paper</th>
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<th>Full Professor</th>
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</thead>
</table>
| 1. Prof dr Srečko Selaković  
Prof dr Siniša Mirković | 2. Doc. dr Ivan Šarčev  
3. Doc. dr. Branislav Bajkin | | 2 | 1 | 1 | |

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Head of the Department  
Prof. dr Đorđe Petrović
36. ORAL MEDICINE (StIV-OMED)

**STUDY PROGRAMME DEPARTMENT**
- Integrated studies in dentistry
- Department of dentistry

**NAME OF SUBJECT**
- ORAL MEDICINE

**STATUS OF THE SUBJECT**
- Compulsory
  - Condition: Special pharmacology (for exams), General Medicine (exam)

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**GOAL**
Educating students for independent practical work on patients with the diseases of oral mucosa, diagnosis, treatment and prevention.

**PURPOSE**

**Knowledge**

**Skills**

**THEORETICAL TEACHING – METHODOLOGICAL UNITS**

**PRACTICAL TEACHING – METHODOLOGICAL UNITS**

**RECOMMENDED READING**
- Compulsory
- Additional

**EVALUATION OF STUDENTS’ WORK – POINTS PER INDIVIDUAL ACTIVITY**

<table>
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<th>Lectures</th>
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</table>

**Assistent dr Miloš Čanković**

**Prof. dr Marija Bokor-Bratić**

Head of the Department
Prof. dr Đorđe Petrović
37. MAXILLARY ORTHOPEDICS I (StIV-ORVIL)

<table>
<thead>
<tr>
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<td>Condition</td>
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The objective of the course in Orthodontics I is to acquaint students with jaw growth and development and to enable him to understand and identify the age-related general and local factors, as well as the diverse interventions and procedures (extraction of milk teeth and permanent teeth, tooth fillings, etc.) that can induce a range of orthodontic disorders. Learning mutual connections between diverse general and local disorders and conditions and development of chewing organs and face, the students will develop ability of critical thinking and conclusion making.

### GOAL

- Learning on normal growth and development of jaws and teeth; development of normal occlusion
- Etiological factors associated with the occurrence of malocclusions
- Morphological diagnostic procedure as a baseline for orthodontic treatment planning (analysis of teeth position, shape and size of the jaws and occlusion findings on dental study models in sagittal, vertical and transverse plane of space).
- Knowing basic principles of orthodontic abnormalities in sagittal, vertical and transverse plane of space.

### PURPOSE

**Knowledge**
- Taking anatomical imprints, molding and creating of working and study models
- Analysis of study models using instrumentation for gnathometric analysis (differentiating between milk teeth and permanent teeth, determining the middle point of the jaw, analysis of teeth position and dental arch development, analysis of occlusal relationships)
- Creation of retention and active wire elements for mobile orthodontic apparatus

**Skills**
- Definition, tasks and objectives of the course; Psychological and social-economical importance of orthodontics
- History of orthodontics; first records on orthodontic disorders; records on orthodontic therapy before Engel and towards modern orthodontic therapy approach
- Prenatal development of head and face,
- Prenatal development of teeth
- Postnatal development of the head, face, jaws and teeth from birth to first milk teeth eruption
- Development of masticatory organs from first milk teeth eruption to completion of milk teeth series (to 2.5 years),
- Development of masticatory organs in the period of first milk teeth series and early mixed teeth series (early mixed dentition)
- Development of masticatory organs in the period of late mixed teeth series (late mixed dentition)
- Development of masticatory organs in the period of permanent teeth series (permanent dentition)
- Normal occlusion – ideal occlusion and articulation
- Motor functions – general characteristics of muscles and their overall function, normal breathing function and its influence on the development of orofacial system,
- Normal function of feeding – breast-feeding and swallowing and their effect on orofacial region development,
- Function of feeding – chewing and its effect on normal development of orofacial system
- Function of speech focusing on articulation of sounds in oral cavity and its importance in masticatory organ development
- Features and importance of the imprint in orthodontics
- Importance and creation of study models
- Instruments used for analysis of study models

### Theoretical teaching – methodical units

- Definition, tasks and objectives of the course; Psychological and social-economical importance of orthodontics
- History of orthodontics; first records on orthodontic disorders; records on orthodontic therapy before Engel and towards modern orthodontic therapy approach
- Prenatal development of head and face,
- Prenatal development of teeth
- Postnatal development of the head, face, jaws and teeth from birth to first milk teeth eruption
- Development of masticatory organs from first milk teeth eruption to completion of milk teeth series (to 2.5 years),
- Development of masticatory organs in the period of first milk teeth series and early mixed teeth series (early mixed dentition)
- Development of masticatory organs in the period of late mixed teeth series (late mixed dentition)
- Development of masticatory organs in the period of permanent teeth series (permanent dentition)
- Normal occlusion – ideal occlusion and articulation
- Motor functions – general characteristics of muscles and their overall function, normal breathing function and its influence on the development of orofacial system,
- Schwartz analysis of study models, measuring points for width and height of dental arch, median values
- Analysis of teeth position in transversal plane in the upper and lower jaw, determining the mid-point of upper and lower jaw
- Analysis of teeth position in sagittal plane in the upper and lower jaw
- Analysis of teeth position in vertical plane of space, shape and height of the palate
- Analysis according to Mellers and Bolton
- Assessment of sagittal relationship of jaws, terminology of the occlusal finding
- Importance and analysis of intraoral and extraoral X-ray scans
- Rtg craniometry and Rtg cephalometry
- Analysis of profile Ro scan according to Schwartz and Steiner
- Etiology of malocclusion, classification of malocclusions, biochemical basis of inheritance, inheritance pathways
- Effects/role of inheritance on orofacial region
- General diseases and disorders of endocrine function and their effects on the occurrence of malocclusions
- Nutrition deficiency, congenital anomalies and their impact on the occurrence of malocclusions
- Local diseases and trauma and their impact on the occurrence of malocclusions
- Functional disorders and bad habits and their impact on the occurrence of malocclusions
- Hyperdontia and hypodontia, macro- and microdontia, persistence of milk teeth and their impact on the occurrence of malocclusions

**SUBJECT CONTENTS**

- Impairments in the view of teeth position
- Impairments in the view of the number and size of teeth
- Impairments of dental arch – crooket teeth, irregular shape or size
- Impairments of I class
- Impairments of II class
- Impairments of III class
- Transversal and vertical impairments
- Congenital anomalies – Cheilognathopalatoshisis
- Congenital anomalies - syndromes

**Practical teaching – methodical units**

- Taking anatomical imprints, individual bite was moulds; working models and creating the base plate
- Instruments for performing gnathometric analysis
- Toothless jaw (milk teeth, permanent) and its characteristics; deviation from normal occlusion at all three planes – displaying characteristic cases
- Differentiation between milk teeth and permanent dentition
- Determining dental age
- Analysis of study models – teeth status, labeling, numbering, type and shape of teeth
- Determining the mid-point of the upper jaw. Transferring the median to the lower jaw. Rtg spine mentalis.
- Analysis of the symmetry/asymmetry of teeth; reconstruction
- Schwartz analysis: measuring of the upper and lower jaw/width and height of the dental arch/median value
- Comparison of the teeth series in the upper and lower jaw at all three planes in space (sagittal, vertical and transversal)
- Bite classification according to Engel
- Tooth ratio and dentition analysis (Moyers, Bolton)
- Diagnostics of occlusal finding (terminology), therapy plan, description
- Morphological diagnosis and therapy plan
- Mechanical features of the wire and types of orthodontic forceps
- Practicing the techniques of dental wire twisting
- Components and basic characteristics of particular orthodontic apparatus
- Twisting of retention and active wire elements of the orthodontic apparatus
- Knowledge test

**RECOMMENDED READING**

**Mandatory**

**Further**

**Student Work Assessment** – number of points for individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final Exam</th>
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<tbody>
<tr>
<td>Lectures</td>
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**List of Teachers and Associates**

<table>
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<tr>
<th>Associate</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>Prof. of studies</th>
<th>Assistant Prof.</th>
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<th>Scientist</th>
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</table>

1. Prof. dr Branka Vukić-Ćulafić
2. Prof. dr Đorđe Petrović
3. Doc. dr Predrag Vučinić
4. Asist. dr Stojan Ivić

Head of Department
Prof. dr Đorđe Petrović
**38. PERIODONTOLOGY I (StIV-PDNT)**

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Integrated Studies of Dentistry</th>
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<td>Condition</td>
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**AIM**

Getting acquainted with the conception of support apparatus of teeth, its function and importance, causes and mechanism of periodontal disorders and learning about basic diagnostic and therapy procedures

**PURPOSE**

Acquiring basic knowledge of etiology, pathogenesis and classification of periodontal diseases, as well as basic methods used in establishing diagnosis and treatment.

**SKILLS**

Acquiring basic periodontal instruments, their names, application and appropriate techniques of usage. Mastering manual skills by working with mannequins and patient models.

### CONTENTS OF SUBJECT:

#### Theoretical teaching – methodical units

1. Anatomy, histology and function of parodontium
2. Etiology of periodontal diseases. Local and systemic etiological factors
4. Classification of periodontal diseases
5. Clinical picture of gingivitis
6. Clinical picture of periodontal diseases
7. Diagnosis and differential diagnosis
8. Epidemiology of periodontal diseases

#### Practical teaching – methodical units

1. Basic features of healthy periodontium
2. Etiology of periododontopatia (specific and common factors)
3. Motivating and educating patients on daily oral hygiene
4. Clinical picture of periodontal diseases: gingivitis, paradontopatia
5. Periodontal status index
6. Depth of periodontal pocket, epithelial attachment level, gingival level, working on models
7. Dental plaque: identification, removal. Working on models
8. Concrements, features and importance; Instruments and removal techniques. Working on models
9. Subgingival concrements, Instruments and removal techniques. Working on models
11. Medical history and clinical examination of the patient

**RECOMMENDED READING**

1. B. Dimitrijević: KLINIČKA PARODONTOLOGIJA. Beograd 2011

**Student evaluation – no. of points for each activity**

<table>
<thead>
<tr>
<th>Pre-exam activities</th>
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**List of professors and assistants**

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<th>scientist</th>
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</table>

1. Prof. dr Milanko Đurić
2. Ass. dr Jelena Računica
3. Ass. dr Ivana Gušić
4. Ass. dr Tanja Predin

The Head of the Department
Prof. Dr Đorđe Petrović
# 39. OPERATIVE DENTISTRY – CLINIC II (StIV-BZUK)

**STUDY PROGRAMME**
Integrated studies in dentistry

**DEPARTMENT**
Department of dentistry

**NAME OF SUBJECT**
TEETH DISEASE – CLINIC 2

**STATUS OF THE SUBJECT**
Compulsory

### Condition
Diseases of teeth-Clinic I, Special Pharmacology (exam)

### Year of studies

<table>
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<th>Summer term (hrs/week)</th>
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### Methods of teaching
Theoretical and practical

## GOAL
The aim of the course is to train the student in diagnosing and treating disorders of hard tissues and dental pulp under clinical conditions

### PURPOSE

#### Knowledge
Diagnostics and therapy of hard dental tissues and dental pulp.

#### Skills
Skills are acquired through independent practical clinical work with permanent control of the working stages. Compulsory study program in the framework of clinical practical training in Operative dentistry – clinic I and II comprises total of 17 definitive fillings (composite and GIC fillings, therapy of deep caries) including multisurface amalgam filling. Some aspects of clinical skills are integrated in subjects Endodontics I and II. During practical work encompassed by Operative Dentistry I and II, and Endodontics I and II, the students have to perform around 40 treatments of hard dental tissues with definitive fillings.

At the end of the practical course in Operative Dentistry II student should:

1. master diagnostic procedures related to diseases of hard dental tissue and dental pulp
2. acquire theoretical and practical knowledge on materials for temporary and definitive cavity closing
3. acquire theoretical and practical knowledge on all types of cavity preparation, retention and restoration by using modern materials and instrumentation for placing definitive fillings
4. demonstrate theoretical and practical knowledge about therapeutics and therapy approach and protocol in treatment of deep caries and dental pulp diseases

### Theoretical teaching – methodical units

#### Practical teaching – methodical units

- Preparation and restoration of III class cavities using composite material applying glass-ionomer cement base and adhesive system
- Restoration of IV class complex cavities using composite fillings
- Preparation and restoration of V class cavities using composite material on frontal teeth
- Application of composite material on lateral teeth – indications and contraindications
- Preparation and restoration of I class cavities on occlusal surfaces using adhesive systems and composite fillings
- Preparation and restoration of cavities on dental neck (wedge shaped erosion) by applying adhesive systems and composite fillings
- Preparation and restoration of I class cavities on occlusal surfaces by applying adhesive systems, GIC base and composite fillings
- Preparation and restoration of multisurface cavities on lateral teeth using adhesive systems, GIC base (open and closed “sandwich” technique) and composite fillings
- Restoration of complex cavities on lateral teeth applying adhesive composite system and additional retention modalities (channels and retention spots)
- Restorative procedure applying glass-ionomere cement on frontal teeth
- Preparation and restoration of III and V class cavities using GIC
- Restoration of cavities in gingival third of the crown using glass ionomere cement (wedge shaped erosions)
- Therapy procedures in deep caries – diagnosis and processing of carious lesion, placing material for indirect pulp capping
- Restorative techniques for preserving pulp vitality
- Vital pulpotomy – technique
- One-step therapy of deep caries: indirect pulp capping and tooth restoration using definitive filling
- Multi-step therapy of deep caries: drug, protective base (GIC) with temporary cavity restoration
- Restoration of deep cavities depending on therapy modality and the type – cavity localization
- Control of therapy outcome in deep cavities after one-step and multi-step treatment
- Restorative procedure in complex cavities with additional retention applying amalgam and composite material

### RECOMMENDED READING

#### Compulsory

1. Osnovi restaurativne stomatologije Slavoljub Živković, Data Status Beograd, 2009
2. Oboljenja pulpe; U uždženiku Endodoncija, V. Filipović i sar., 3. izdanje, Univerzitet u Beogradu 1996
4. Osnove zubnog karijesa (prevod) Kid E, Data Status, Beograd, 2010

#### Additional

1. Sastav i svojstva adhezivnih sredstava, podela adhezivnih sredstava; U monografiji, Odnos fenomena mikrocurenja i jačine veze dentin-vezujucih sredstava kompozitnih sistema, Lj Petrović, Univerzitet u Novom Sadu, Medicinski fakultet u Novom Sadu 2009
### Evaluation of students' work – Points per individual activity

<table>
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<tr>
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### List of teachers and Assistants

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<tr>
<td>1. Prof dr Ljubomir Petrović</td>
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<td>2. Prof dr sci Larisa Blažić</td>
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<td>3. Prof dr Tatjana Brkanić</td>
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<td>4. Doc dr Ivana Stojšin</td>
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<td>5. Doc dr Igor Stojanac</td>
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<td>7. Asist. dr Bojana Ramić</td>
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<td>8. Asist. dr Karolina Vukoje</td>
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<td>9. Asist. dr Ivana Kantardžić</td>
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<td>10. research associate dr Matica Premović</td>
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Head of the Department
Prof. dr Đorđe Petrović
40. EMERGENCY MEDICINE (StV-URG)

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Integrated studies in Dentistry</th>
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<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department of Emergency Medicine</td>
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<tr>
<td>SUBJECT</td>
<td>EMERGENCY MEDICINE</td>
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**Academic Year**

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**Methods of teaching**

Lectures, Practice

**GOAL**

Students are introduced to prehospital and initial hospital organization and management of emergency and critical conditions in medicine, basic and extended measures of cardiopulmonary resuscitation. It is essential to introduce a student to sudden death diagnosing and management, not only sudden death victims, but those who survive, as well as positive and comforting influence on family and friends. Mastering skills for practical application of acquired knowledge in practice. Development of critical thinking and capability for scientific research.

**PURPOSE**

Know-ledge

Introducing students to prehospital and initial hospital organization and management of emergency and critical cases in medicine. Introducing students to mistakes that can occur during management in emergency medical practice. Obligations of a doctor in case of sudden death. Use of medicaments and sophisticated technologies in emergency medicine and possibility of use in scientific research.

Skills

Mastering basic and extended measures of cardiopulmonary resuscitation (adults and children), basic and extended measures and procedures in injury management (adults and children). Mastering skills is conducted on phantoms and patients, as well as presentations of possible health issues with questions, answers and discussions.

**SUBJECT CONTENT**

**Theoretical teaching – methodical units**

2. Assessing, maintaining and providing airway. Artificial respiration.
3. Acute chest pain (evaluation and management)
4. Acute coronary syndromes
6. Emergency conditions in vascular medicine (dissection, rupture, acute occlusions, deep venous thrombosis, emboly)
7. Peri-arrest arrhythmia (tachycardia, bradycardia)
8. Hypertensive emergency conditions
10. Death – phases of sudden death diagnosis, communication with the family. Medico legal aspects of emergency medicine.
11. Acute peripheral arterial ischemia
13. Anaphylactic shock
14. Respiratory insufficiency. Acute asphyxia (identification signs, initial management)
15. Acute abdominal pain (evaluation, differential diagnosis, initial management)
16. Acute intracranial / spinal compression
18. Epilepsy and convulsions. Delirium and acute states of confusion
19. Acute headache. Ischemic stroke. Transitory ischemic attack (TIA)
20. Subarachnoid hemorrhage (SAH)
22. Trauma – severe isolated and severe multiple. Prehospital primary examination (ABCDE principle) and on-site stabilization, Prehospital management during transportation. Initial hospital management.
23. Acute poisoning
Practical teaching – methodical units

2. Mechanical devices for airway securing. Bolus obstruction in adults and children (algorithm to procedures) – practice on mannequin
3. Difficult airway (algorithm to procedures)
4. Methods of artificial respiration – practice on mannequin
5. Intravascular access (peripheral venous, central venous, intraosseal) – practice on mannequin
6. Infusion solutions for volume compensation
7. Vasoactive, inotropic and anti-arrhythmic medicines as initial pharmacotherapy of emergency conditions (ways of administration, preparation, dosage, indications)
8. Basic measures of CPR in adults and children (algorithm to procedures) – practice on mannequin
9. ECG forms of cardiac arrest and ECG recognition of peri-arrest arrhythmia
10. Early defibrillation (types of defibrillators, indications). Cardioversion. Trans acute cardiac pacing- practice on mannequin
11. Extended CPR measures in children and adults (algorithm to procedures) – practice on mannequin
12. Pharmacotherapy of cardiac arrest (types of medicaments, ways of administration)
13. Therapeutic algorithm of asystoly – practice on mannequin
14. Therapeutic algorithm of pulseless electrical activity – practice on mannequin
15. Therapeutic algorithm of ventricular fibrillation and ventricular pulseless tachycardia – practice on mannequin
16. Simulation of cardiac arrest and CPR in adults and children
17. Simulation and management of peri-arrest arrhythmia and management
19. Simulation of multiple trauma; primary ABCDE and secondary examination
20. Simulation of multiple traumas – score system in diagnostics and assessment of the outcome of the traumatized
21. Sedation and analgesia (indications, types of medicaments and ways of administration)
22. Introducing to contents ofprehospital management of the Institute for emergency medicine
23. Introducing to contents of initial hospital management in Emergency Centre

RECOMMENDED READING

Mandatory

Further

Student Work Assessment – number of points for individual activity

<table>
<thead>
<tr>
<th>Lectures</th>
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</table>

List of Teachers and Associates

Associate | Assistant | Lecturer | Prof. of studies | Assistant Prof. | Associate Prof. | Professor | Scientist |
----------|----------|---------|------------------|----------------|----------------|-----------|-----------|
1. Doc dr Vladan Popović | 6 | 0 | 3 | 6 | 2 | 0 |
2. Doc dr Ilija Srdanović | 3 | Snežana Stanisavljević | 4 | Vesna Pađić | 5 | Vladimir Manojlović | 6 | Srdan Gavrilović | 7 | Nemanja Gvozdenović |

Head of the Department
Doc. dr Vladan Popović
41. ENDODONTICS I (SHV-ENDD)

STUDY PROGRAMME: Integrated studies in dentistry

DEPARTMENT: Department of dentistry

NAME OF SUBJECT: ENDODONTICS I

STATUS OF THE SUBJECT: Compulsory

Condition: Operative Dentistry - Clinic II (Exam)

<table>
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<th>Year of studies</th>
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Methods of teaching: THEORETICAL AND PRACTICAL

GOAL

The objective of the course: Student should master the therapy of the endodontium and periradicular region

PURPOSE

Knowledge

The student should get acquainted basic and contemporary accomplishments in the field of endodontics, to get an insight in current and future developments in this field, diagnostic of relevant diseases, instruments and procedures in the treatment of endodontium and periradicular region.

Skills

The skills are accomplished during practical classes, by working independently under permanent control of working phases. After completing the practical course in Endodontics I student should be capable of:

1. performing diagnostic procedures related to the diseases of endodontium and periradicular region
2. appropriately preparing the working area
3. demonstrating theoretical and practical knowledge on instruments and materials applied in endodontics
4. demonstrating theoretical and practical knowledge on instrumentation of endodontic region by working on models

CONTENT OF THE SUBJECT:

Theoretical teaching – methodical units

1. Apex and apical paradontitis, diagnostic procedures, classification, clinical picture
2. Introduction to endodontic therapy
3. Morphology of cavum dentis
4. Endodontic instruments (ISO-standard)
5. Aseptic work in endodontics
6. Endodontic preparation – working protocols
7. Definitive obturation of endodontic space

Practical teaching – methodical units

1. Diagnosis and analysis of X-ray scan
2. Therapy plan
3. Trepanation
4. Creation of access cavity
5. Testing of initial permeability
6. Odontometry
7. Instrumentation of root canal (techniques)
8. Irrigation of root canal
9. Medication
10. Obturation of root canal

RECOMMENDED READING

Compulsory

Gunnar Bergenholz, Preben Harsted-Bindslev, Endodontologija, Orion, Beograd, 2011
Slavoljub Živković i saradnici, Praktikum endodontske terapije, Data status, Beograd, 2011

Additional

Mahmoud Torabinejad, Richard E. Walton. Endodoncija-Klinička načela i praksa, Naklada Slap, Zagreb 2010

Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
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100

List of teachers and Assistants

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Head of the Department

Prof. dr Đorđe Petrović
### IMPLANTOLOGY (StIV-IMP)

#### STUDY PROGRAM
- Integrated studies in Dentistry

#### DEPARTMENT
- Department of dentistry

#### SUBJECT
- Implantology

#### STATUS OF THE SUBJECT
- compulsory

#### Condition
- None

<table>
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Methodology: Lectures and practical work, lectures, practice with professors and assistants.

### AIM
The objective of the subject is getting familiar with the most recent technologies used in dentistry.

### PURPOSE
Implantology is the multidisciplinary branch of dentistry. Students should get acquainted with its principles since implantology and related dentistry branches represent the most contemporary trend in modern dentistry.

### SKILLS
Through the practice on mannequins and simulation models students will acquire basic knowledge on dental implants and procedures of their mounting. The prosthetic work will acquaint students with procedures of prosthetic rehabilitation of patients with implant-supported dentures.

### CONTENTS OF SUBJECT:

#### Theoretical teaching – methodical units

1. Introduction to the course
2. Materials used in implantology
3. Selection of patients and pre-implanting preparation
4. Indication and contraindications for dental implants
5. Bone structure and the classification of implants
6. Mounting implants according to types / classes
7. Special surgery (pre-implanting preparation)
8. Complications (intraoperative and postoperative)
9. Therapy plan combined with implant-supported dentures
10. Types of suprastructures
11. Taking imprints for suprastructures
12. Importance of working with articulator
13. Fixing of implant-supported dentures
14. Occlusal balance
15. The importance of check-up examination in implantology

#### Practical teaching – methodical units

1. Anamnesis of clinical examination and the x-ray scan analysis
2. Pre-implanting preparation
3. Implantation on phantom (factory models)
4. Taking dental imprints
5. Establishing inter-jaw relationships
6. Cementing of implant-supported dentures
7. Fixing of implant-supported dentures with screw-retention

### RECOMMENDED READING

#### Compulsory
1. Osnovi oralne implantologije ( Dr Jovan Perović )
2. Atlas oralne implantologije ( Dr Zoran Stajčić)
3. Transdentalni titan implantata (Jovan Perović, Milan Jurišić, Aleksa Marković )

#### Additional

### Student evaluation – no. of points for each activity

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<th>Lectures</th>
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### List of professors and assistants

<table>
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<tr>
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<tr>
<td>1.</td>
<td>Prof dr Dubravka Marković</td>
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<td>2.</td>
<td>Prof. dr Siniša Mirković</td>
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Head of the Department
Prof. dr Đorđe Petrović
43. ESTHETICS IN DENTISTRY (StIV-IZPR)

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<th>STUDY PROGRAM</th>
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<td>DEPARTMENT</td>
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<tr>
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<td>ESTHETICS IN DENTISTRY</td>
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<tr>
<td>COURSE STATUS</td>
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</table>

**Goal**

Mastering of knowledge and skills necessary for the implementation of diagnostic and therapeutic procedures in the areas of restorative dentistry and dental prosthetics that meet the high ESTHETIC requirements.

**Knowledge**

Acquiring of knowledge about: ESTHETIC parameters of face and jaws, teeth whitening techniques, possibilities of therapy of lost dental hard tissue by direct and indirect ESTHETIC restoration as well as conservative and ESTHETIC prosthetic reconstruction of endodontic treated teeth that meet the highest ESTHETIC criteria.

**Skills**

Adoption of skills related to diagnostic and therapeutic procedures that enable making of highly ESTHETIC conservative and prosthetic reconstruction of the dental crown.

**Theoretical teaching - methodical units**

I ESTHETIC requirements in dentistry

2. Color and color perception. Natural color of teeth. Color and ESTHETIC characteristics of the material used for the direct and indirect restorations, as well as for prosthetic reconstruction (porcelain flakes (veneers) and ceramic non-metallic crowns).

II Direct ESTHETIC restorations of front teeth

III Direct ESTHETIC restorations of the lateral teeth

IV Indirect esthetic restorations

3. Temporary restoration of teeth prepared for indirect fillings.
4. CAD-CAM technology in making of indirect fillings.

V Porcelain flakes.
1. Porcelain flakes - indications and contraindications.
2. The plan of therapy. Making of diagnostic models and temporary restorations.
3. Preparation of teeth (anterior teeth, premolars).
4. Prints for flakes.
5. Laboratory stages in flakes making.
6. Trial and setting of flakes.

VI Non-metallic ceramic crowns

1. Non-metallic ceramic crowns - indications and contraindications.
2. Types of non-metallic ceramic crowns.
3. Preparation of teeth for non-metallic ceramic crowns.
4. Prints
5. Laboratory stages making of nonmetallic ceramic crowns.
6. Trial of ceramic crowns and their setting.

VII Esthetic reconstruction of teeth treated for endodontic.

2. Direct ESTHETIC restorations of endodontic treated teeth.
3. Indications for placing pulp cleats.
4. Types of ESTHETIC pulp cleats; the manner of their setting.
5. Reconstruction of endodontic treated teeth with ESTHETIC crowns.

VIII Teeth whitening

1. Types of pigmentation and discoloration of teeth.
2. Indications and contraindications for teeth whitening.
** Practical teaching - methodical units**

| Cavity preparation and performing of direct ESTHETIC restoration of the front teeth |
| Cavity preparation and performing of direct ESTHETIC restoration of the lateral teeth |
| Cavity preparation and performing of indirect ESTHETIC restoration |
| Teeth preparation and performing of porcelain flakes - front teeth |
| Teeth preparation and performing of porcelain teeth flakes - premolars |
| Teeth preparation and performing of direct ESTHETIC restoration of endodontically treated teeth |
| Root canal preparation and placing of ESTHETIC pulp pins. |
| Making of ESTHETIC crowns on endodontically treated teeth |
| Teeth preparation and making of non-metallic ceramic crowns |
| Application of teeth-whitening techniques |

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**RECOMMENDED READING**

<table>
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<th>Compulsory</th>
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**Evaluation of student’s work – number of points for each activity**

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**Total**

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**The list of teachers and associates**

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<th>Associate</th>
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<td>Doc. dr Branislava Petronijević</td>
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1. Prof. dr Dubravka Marković  
2. Prof. dr Larisa Blažić  
3. Prof. dr Tatjana Brkanić  
4. Doc. dr Tatjana Puškar  
5. Doc. dr Branislava Petronijević  
6. Doc. dr Milan Drobac  
7. Doc. dr Igor Stojanac  
8. Doc. dr Bojana Milekić  

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Head of the Department  
Prof. dr Đorđe Petrović
43. MATHEMATICAL MODELS IN DENTAL RESEARCH (StIV-IZPR)

STUDY PROGRAM | Integrated studies in dentistry
DEPARTMENT | Department of Dentistry
COURSE TITLE | MATHEMATICAL MODELS IN DENTAL RESEARCH
COURSE STATUS | optional

Condition | no

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<td>Methods of teaching</td>
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GOALS

1. To understand and apply mathematical modeling in dental research.
2. After passing the exam student is expected to know different approaches of mathematical data modeling and to express the factors influencing variability in dentistry by the parameters of mathematical models.
3. Upon the completion of the course, the student is expected to be able to apply the appropriate mathematical model in dental theory and practice and to calculate the unknown parameters of the model.

COURSE CONTENT: Theoretical teaching - methodical units

1. Modeling in dentistry
2. Mathematical modeling methods in dentistry
3. The method of least squares
4. Systemic approach to dental researches and practice
5. Laplace and Fourier’s transformation
6. Complete Laplace’s transformation, the concept of subsystems and partial Laplace’s transformation
7. Application of spine functions
8. Interpolation and approximation of functions
9. The principle of convolution
10. Heavisid’s development and general theorem on partial fractions in solving mathematical models via Laplace’s transformation
11. General compartment theory
12. The method successive derivative ratio spectra
13. The method of frequency response of linear dynamic systems
14. The method based on the concept of artificial neural networks
15. Method based on fuzzy logic of theory groups
16. The method based on fractal concept
17. The application of incomplete derivatives of linear differential equations, their sum and integrals

Practical teaching - methodical units

1. Systems theory in dentistry
2. Identification of systems
3. Frequency-response data model
4. Structured model
5. System time delay and shunt system
6. Application of system theory in biology, medicine and dentistry
7. Composite materials in dentistry and the application of mathematical models

RECOMMENDED READING

Compulsory
1. Popović J, Mathematical principles in pharmacokinetics, compartment analysis and biopharmacology, Faculty of Medicine, Novi Sad
2. Popović J, Mathematical principles in pharmacokinetics, compartment analysis and biopharmacology II part, Faculty of Medicine, Novi Sad

Additional
2. Pokrajac M, Pharmacokinetics, Grafolik, Beograd

Evaluation of student’s work – number of points for each activity

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The list of teachers and associates

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Head of the Department
Прф. др Дорде Петровић
43. MANAGEMENT IN MEDICINE AND DENTISTRY (StIV-IZPR)

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<tr>
<th>STUDY PROGRAMME</th>
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Study year | Winter term (No. of lessons per week) | Summer term (No. of lessons per week) | No. of tests | No. of seminars | ECTS credits |
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Methods of teaching | Lectures, Pract., Seminar paper

GOAL

Introducing students to the basics and principles of organization and management systems, with emphasis on health care system as a system providing services in the field of health care in the community. Therefore, mastering the technology for managing specific process in healthcare is the principal goal to be achieved in this course.

PURPOSE

Knowledge

The course is structured to enable students to acquire knowledge about the importance of management in modern organization. Principles, methods, models and functions of management encompass the knowledge that the student acquires through this course, thus enabling him to solve the problems arising in the healthcare system.

Skills

Acquired knowledge allow mastering communication skills in the organization, developing motivation models, direction and leadership in different situations, designing personnel policy, creation of teams and teamwork, effectively lead the meetings and informing the users within the healthcare system.

SUBJECT CONTENT

**Theoretical teaching-methodical units**

1. Definition of management and health management
2. Development of theory and practice of management and organization
3. Entrepreneurial Management
4. Structuring management functions
5. Principles of Management
6. Methods of management
7. Management Functions
8. Planning and organizing process
9. Personnel management - the primary function of management
10. Management - Leadership approach to achieving impact on the members of the organization
11. Approaches and styles of management
12. Communication and communication management
13. Motivation in management - the importance and forms of realization of the motivational impact
15. The reform of health system
16. Development of Health Strategy
17. Healthcare system reform

**Practical teaching-methodical units**

1. Modeling of the organization system
2. Creating plans
3. Structuring communication and communication networks in the organization
4. Create a system of motivation and stimulation of employees
5. Planning staff policy and their development in the organization
RECOMMENDED LITERATURE

Compulsory

Additional
1. Micić P., Menadžment zdravstvenog sistema, ECPD, Beograd
2. Vukmanović Č., Menadžment u zdravstvu, ECPD, Savremena administracija, Beograd

Evaluation of students' work – ECTS credits per each activity

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Spisak nastavnika i Associatea

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Head of the Department
Prof. dr Mirjana Martinov Cvejin
43. DENTAL CARE OF ELDERLY PATIENTS (StIV-IzPR)

**STUDY PROGRAMME**: Integrated studies in dentistry

**DEPARTMENT**: Department of dentistry

**NAME OF THE SUBJECT**: DENTAL CARE OF ELDERLY PATIENTS

**SUBJECT STATUS**: Optional

**Condition**: none

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**GOA**

1. Knowledge of the aging process and their limits, timely dental care of the elderly, providing maximum care of the dental system through preventive and clinical methods. Protection of oral health and timely prosthetic rehabilitation of elderly and ill persons.

**Knowledge**

Acquiring knowledge about all changes associated with aging. All changes that may occur in the oral cavity of elderly patients may arise as a consequence of the diseases affecting individual teeth and oral mucosa, or may be manifested as a consequence of systemic diseases, as well as undesirable effects of different drugs.

**Skills**

Practical skills in dentistry, identification of specific pathological conditions of dental structures in the elderly. Defining systemic diseases that affect elderly persons, as well as the irreversible changes that need dental prosthetic treatment. Skills in the field of repair of soft and hard tissues, teeth extraction, final prosthetic works (dentures). Showing the understanding towards elderly people, whether healthy or diseased.

**SUBJECT CONTENT:**

**Theoretical teaching-methodical units**

1. General anatomy, osteology of the head and neck
2. Physiology of the dental system
3. Masticator system
4. Systemic diseases affecting the elderly
5. Aging and changes in the oral lining
6. Aging and Periodontal tissue changes in the periodontal tissue
7. Care of the elderly or ill people and special procedures
8. Teamwork in dental care for the elderly cases

**Practical teaching-methodical units**

- The plan of treatment depending on the mental and physical condition of the elderly
- Anamnesis and clinical examination of elderly patients
- Restoration of remaining teeth, a conservative and prosthetic
- Repair of the soft tissues of mouth
- Extraction of teeth at risk elderly patients
- Providing assistance to elderly persons or immobile

**RECOMMENDED LITERATURE**

**Compulsory**

**Additional**

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Head of the Department
43. PHARMACOTHERAPY OF INFECTIONS IN DENTISTRY (StIV-IZPR)

**STUDY PROGRAMME** Integrated studies in dentistry

**DEPARTMENT** Department of pharmacology, toxicology and clinical pharmacology

**NAME OF SUBJECT** PHARMACOTHERAPY OF INFECTIONS IN DENTISTRY

**STATUS OF THE SUBJECT** Optional

**Condition** Special Pharmacology (Exam)

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**Methods of conducting teaching** Theoretical Lectures and practical Pract.

**GOAL OF THE SUBJECT** To acquire skills in applying knowledge in general and special pharmacology in dentistry

**PURPOSE OF THE SUBJECT**

**Knowledge** Students should be aware of the importance of antiseptics, disinfectants and antibiotics in everyday dentistry practice with an aim of preventing outbreak and spread of the infection, as well as the development of bacterial resistance to antimicrobial agents. Student should learn to select the appropriate antiseptic, disinfectant or antibiotic in his everyday practice, to be acquainted with the pharmacotherapeutical approach to infection treatment, the pain in dentistry, to know the importance of adequate administration of sedatives in everyday practice and to be in line with information sources pertaining to novel drugs applied in practice with particular emphasis on drugs that can manifest undesirable and adverse effects in the oral cavity.

**Skills** Student should be trained for appropriate application of disinfectants and antiseptics in everyday practice, adequate use of antibiotics in both prophylaxis and treatment, applying data sources on drugs commonly used in dental medical practice and identifying and recognizing adverse effects of the drugs in the micro-environment of the oral cavity.

**CONTENT OF THE SUBJECT**

**Theoretical teaching – methodical units**
1. Importance of appropriate hygienic regimen related to working environment, instrumentation and personnel in dentistry practice
2. Knowing the spectrum of antimicrobials, efficacy and adverse effects of antiseptics and disinfectants in dentistry
3. Appropriate selection of dermo-antiseptics, mucosal antiseptics, disinfectant for items and working premises, instrumentation and operation area
4. Appropriate selection of antibiotics in dentistry on the basis of knowledge of bacterial flora of oral cavity, spectrum of antimicrobials and their pharmacokinetics, adverse effects of antibiotics and their interactions with other drugs with an aim of preventing development of bacterial resistance to antibiotics and preserving the effectiveness of commonly applied antibiotics
5. Prophylactic application of antibiotics in dentistry
6. Therapy of dentogenic infections
7. Therapy of periodontal infections
8. Appropriate selection of analgesics in dentistry
9. Appropriate selection of sedatives in dentistry
10. Therapy of pain characteristic for patients in dental medicine
11. Data sources on drugs applied in dental medical practice
12. Importance of drugs and their effects on the micro-environment of the oral cavity

**Practical teaching – methodical units**
1. Practical application of disinfectants for working surfaces, instruments, principles of asepsis in personnel (hand hygiene) aimed at preventing infection outbreak and spread in dental medical practice
2. Practical application of antiseptics in patients
3. Proper selection of antibiotics for prophylaxis of most common procedures in dentistry
4. Practical application of antibiotics in most common infections in dentistry
5. Practical application of analgesics based on knowing the action mechanisms and pharmacokinetics of the analgesics, their adverse effects and interactions with other drugs in most prevalent painful conditions in dentistry
6. Practical application of sedatives based on knowing the action mechanisms and pharmacokinetics of these drugs, their adverse effects and interactions with other drugs
7. Using available data sources on drugs available in everyday practice
8. Knowing the drugs that can manifest adverse effects on teeth and the oral cavity

**RECOMMENDED READING**

**Compulsory**
3. LEKOVI U PROMETU, OrniMedics, Novi Sad, 2010 (i starija izdanja)

**Additional**
1. Lawrens, Benett: Clinical Pharmacology
## Evaluation of students' work – Points per individual activity

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## List of teachers and Assistants

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Head of the Department
Prof. dr Momir Mikov
43. RATIONAL PHYTOTHERAPY (StIV-IZPR)

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Methods of conducting teaching: Theoretical Lectures, interactive teaching, experimental lab, seminar papers

GOAL

The aim of the course is to offer students information on modern phytotherapy as an aspect of traditional medicine and its importance in medicine

PURPOSE

Knowledge

Students will acquire knowledge on most important phyto preparations applied in our country and worldwide, their active components, therapeutic dosage, action mechanisms of their active components as well as on potential interactions and adverse and undesirable effects

Skills

Students should be skilled in rational selection of appropriate phytopreparations (registered as herbal medicine or dietary supplement) and their role in modern therapy approaches, to be trained in preparing and applying phytopreparations. The students will also learn about the methods for identification and determination of the content of active component in herbal medicines.

CONTENT OF THE SUBJECT:

**Theoretical teaching – methodical units**

1. Rational phytotherapy, definition and role in modern medicine
2. Standardization, registration; legislation and guidelines for use of phytopreparations
3. Biological, pharmacological and clinical testing of phytopreparations
4. Pharmacological characteristics of particular phytopreparation groups
5. Phytopreparations in the therapy and prevention of diseases of major organ systems (CNS, gastrointestinal, respiratory, urogenital tract, metabolic disorders and disorders of immune and reproductive system, liver and biliary tract disorders)
6. Specificities of dosage of phytopreparations
7. Advantages and precautions in phytopreparations usage
8. Adverse and undesirable effects and interactions with particular drug categories
9. Phytonutrients
10. Adaptogens

**Practical teaching – methodical units**

1. Pharmaceutical dosage forms of phytopreparations – preparation and application, storage and disposal
2. Registration of phytopreparation (herbal medicine or dietary supplement)
3. Analysis and control of the Guidelines for usage of phytopreparations
4. Data sources on phytopreparations
5. Identification and determination of the content of active component in phytopreparations
6. Compatibility with the Guidelines for usage of commercial herbal medicine
7. Selection of appropriate phytopreparation in the prevention and therapy of the disease

RECOMMENDED READING

**Compulsory**


**Additional**

### Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
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### List of teachers and Assistants

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<tr>
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</table>

1. **Doc. dr Biljana Božin**
2. **Prof. dr Isidora Samojlik**
3. **Asist. Neda Gavarić**
4. **Asist. dr Vesna Mijatović**

Head of the Department  
Doc. dr Biljana Božin
### GOAL
Introduction to basic concepts and clinical procedures in the field of fixed dental prosthetics, the overview of the role of prosthetics in dentistry and adoption of basic principles in planning and oral rehabilitation of toothless patients.

### STATUS OF THE SUBJECT
Compulsory

### STUDY PROGRAMME
Integrated studies in dentistry

#### DEPARTMENT
Department of dentistry

#### NAME OF SUBJECT
CLINICAL PROSTHETICS II

### CONTENT OF THE SUBJECT:

#### Theoretical teaching – methodical units
- Introduction to fixed dental prosthetics
- History and development of fixed dental prosthetics
- Medical history in fixed prosthetics and its importance
- Clinical examination of patients with toothless jaws
- Cranio-mandibular joint connection - anatomical and functional specificities
- Characteristics of nonphysiological occlusion
- Radiological diagnosis orofacial system
- Study models for the processing techniques and procedures for their analysis
- The role of periodontal tissue in the acceptance of occlusal force and planning in fixed prosthetics
- Principles of preparation of carrier-tooth
- Preparation of teeth for full cast crown
- Preparation of teeth for metal-ceramic crown
- Preparation of teeth for inlays and onlays
- Preparation of teeth for facings
- Tooth preparation for non-metal crown
- Types of non-metal ceramic systems
- Restoration of endodontically treated teeth
- Indications for various types of ready-made pins
- Cast upgrade
- Bridge types, the rules for planning and preparation
- Imprinting in fixed prosthetics, individual mould-spoon
- Syringe method for imprinting in fixed prosthetics
- Colors in fixed prosthetics
- Temporary Crown
- Cementing of fixed dentures
- Irreversible occlusal restoration and occlusion therapy using fixed replacements
- Occlusal therapy of patients with malocclusion

#### Practical teaching – methodical units
- Occlusal trauma, functional analysis of the orofacial complex
- Taking anatomical imprints for study models
- Analysis of study models
- Preparation of teeth for full cast crown
- Preparation of teeth for metal-ceramic crown
- Preparation of teeth for Inlay
- Preparation of teeth for facings
- Tooth preparation for non-metal crown
- Preparation and application of different types of ready-made pins
- Cast build-up on single-root and multi-rooted teeth
- Grinding teeth for lateral bridge
- Taking imprints
- Adaptation of individual molding spoons
- Syringe method for imprinting in fixed prosthetics
- Setting colors in fixed prosthetics
- Creation of temporary crowns
- Cementing of fixed dentures, constructing Michigan splint

#### Year of studies | Winter term (hrs/week) | Summer term (hrs/week) | No. of tests | No. of seminars | ECTS credits
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Methods of conducting teaching: Theoretical and practical

Knowledge
- Changes in morphology and physiology of the craniofacial system, transmitting the basic parameters of the patients in the external environment, methods of making fixed dentures

Skills
- Diagnosis and treatment plan, root canal preparation, grinding of teeth, taking imprints in fixed prosthetics, cementing of fixed prosthetic work
RECOMMENDED READING

Compulsory
1. in press

Additional

Evaluation of students' work – Points per individual activity

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Head of the Department
Prof. dr Đorđe Petrović
45. PEDIATRIC DENTISTRY (StV-DST)

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
<th>Integrated studies in Dentistry</th>
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<tbody>
<tr>
<td>DEPARTMENT</td>
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Methodology

**AIM**

Students should gain basic knowledge in pediatric dentistry

**PURPOSE**

**knowledge**

Student should be able to perceive basic dental problems of children and establish diagnosis and treatment.

**SKILLS**

Students should gain knowledge of the medical procedures in pediatric dentistry.

**Theoretical teaching - methodical units**

1. Child dentistry: definition, aims, importance and objectives.
2. The development of oral cavity and teeth, development of jaw and odontogenesis.
3. The teeth eruption: mechanism, theories, chronology, marking, histological and anatomic features of milk and permanent teeth.
6. X-ray in child dentistry, types of scanning, indications and protection.
17. Management of high-risk pediatric patients: children with heart and circulatory diseases, children with limited abilities- the use of local anesthetics.
Practical teaching - methodical units

1. Child dentistry: definition, importance, aims and objectives. Specificities of working with pediatric patients, pain control, first visit to the dentists.
2. Psychological types of children: establishing and special approach.
5. Therapy plan in child dentistry: variations according to teeth types (milk, mixed, permanent)
7. Specific preparation of milk tooth cavity: basic rules and principles.
12. Specific preparation of permanent tooth cavity.
15. Treatment of the teeth with partially developed roots: indications, techniques.
17. Medications and substrates in child dentistry: requirements to be met by substrates and drugs used in oral cavity.
18. Fillings in pediatric dentistry: materials for temporary and permanent filling. (amalgam, composite, glass-ionomere cements)
19. Anesthesia in pediatric dentistry: specificity, types, complications.
22. Injuries of milk and permanent teeth: classification, first visit procedure.
29. Dental prosthetics in pediatric dentistry: indication, basic principles, prosthesis treatment of milk and permanent teeth.

RECOMMENDED READING

<table>
<thead>
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Additional

Student evaluation – no. of points for each activity

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List of professors and assistants

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1. Prof. dr Duška Blagojević
2. Doc. dr Ivan Tušek
3. Doc. dr Bojan Petrović
4. Doc. dr Sanja Vujkov

The Head of the Department
Prof. Dr Đorđe Petrović
46. PERIODONTOLOGY II (StV-PDNT)

STUDY PROGRAMME | Integrated studies in dentistry
DEPARTMENT | Department of dentistry
NAME OF SUBJECT | PERIODONTOLOGY II
SUBJECT STATUS | Compulsory
Condition: Periodontics I, Special pharmacology (for taking an exam)

<table>
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Methods of teaching | Theoretical and practical

GOAL
The aim of the course is to acquaint students with the principles of treating patients with periodontopathy, acquiring knowledge on the importance of periodontal treatment and novel accomplishments of modern periodontology, as well as to train students to independently perform conservative treatment in clinical conditions.

PURPOSE
Knowledge The course relies on the previous course in Periodontics I and previously acquired knowledge and skills. This course will offer advanced knowledge related to the prognosis of periodontopathy, therapy planning, treatment stages and procedures that are currently available.

Skills The student should be trained to perform the clinical examination of periodontium, estimate the periodontal status and to establish the diagnosis. He should be acquainted with the instrumentation for dental plaque removal and processing of periodontal pockets, working technique and course of the procedure. The student should be trained to independently apply and perform the baseline therapy of periodontopathy.

CONTENT OF THE SUBJECT:

**Theoretical teaching - methodical units**
1. Prognosis of periodontopathy
2. Therapy plan
3. Preliminary stage of the therapy
4. Causal stage of the therapy
5. Application of drugs in the therapy of periodontopathy
6. Selection of the method for eliminating periodontal pockets
7. Processing of periodontal pockets
8. Resection surgical methods for eliminating periodontal pockets
9. Regenerative surgical methods
10. Surgical methods for eliminating mucogingival anomalies
11. Pre-prosthetic preparation of the periodontium
12. Treatment of disturbed occlusion
13. Complications of periodontopathy and therapy
14. Maintenance of treatment outcome
15. Prevention of periodontal diseases
16. Periodontal diseases and systemic health
17. Focal infection

**Practical teaching - methodical units**
1. Medical history, clinical examination, analysis of X-ray scans. Working with patients.
2. Prognosis and therapy plan for periodontopathy
5. Causal therapy stage. Working with patients.
8. Iatrogenic factors. Diagnosis and elimination. Working with patients.
10. Surgical instrumentation. Basic principles of periodontal surgery.
15. Maintaining the outcomes of the periodontopathy treatment.
**RECOMMENDED READING**

**Compulsory**
B. Dimitrijević: KLINIČKA PARODONTOLOGIJA. Beograd 2011

**Optional**
J. Lindhe: Klinička parodontologija i dentalna implantologija. Zagreb 2004

| **Student Work Assessment – number of points for individual activity** |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| **Pre-exam obligations** | **Final exam** | **Total** |
| Lectures | Pract. | Test | Seminar paper | Other | Written | Oral | 100 |
| 10 | 30 | | | | | | |

**Spisak nastavnika i Associatea**

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1. **Prof. dr Milanko Đurić**
2. **Ass. dr Jelena Računica**
3. **Ass. dr. Ivana Gušić**
4. **Ass. dr Tanja Predin**

Head of the Chair
Prof. dr Đorđe Petrović
### STUDY PROGRAMME
Integrated studies in dentistry

### DEPARTMENT
Department of Dentistry

### NAME OF SUBJECT
ENDODONTICS II

### SUBJECT STATUS
Compulsory

**Condition:** Endodontics I, Special pharmacology (for taking an exam)

### Academic Year | Winter term (hrs/week) | Summer term (hrs/week) | No. of tests | No. of seminars | No. of POINTS
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**Methods of teaching**
Theoretical and practical

### GOAL
A goal of the course is to train students for independent clinical work in the therapy of the diseases of endodontium and periradicular region.

### PURPOSE
**Knowledge**
The lectures are providing the students with basic knowledge and novel accomplishments in the field of endodontics, current and future development of dental profession, the diagnostics of the diseases and clinical procedures of endodontic therapy: vital dental pulp, infected root canals, periradicular region and post endodontic conservative management of teeth.

**Skills**
During the practical course, students have to independently perform the endodontic therapy (instrumentation and obturation) of ten root canals (under permanent control of all working phases). Some aspects of these skills are integrated in the courses Operative Dentistry - Clinic I and II.

### CONTENT OF THE SUBJECT:

#### Theoretical teaching - methodical units
- Pulpotomy and pulpectomy
- Therapy of the infected root canal
- Therapy of the periodontitis
- Endoperiodontal lesions
- Complications during endodontic therapy
- Processes of repairation after the endodontic therapy
- Repeated endodontic therapy
- Reconstruction of the endodontically treated teeth
- Endodontic therapy of the patients from the risky groups
- Endodontic surgery - indications

#### Practical teaching - methodical units
- Pulpotomy and pulpectomy
- Therapy of infected root canal
- Therapy of acute diseases of periradicular area
- Therapy of chronic periodontitis of the apex
- Repeated endodontic therapy – non-surgical treatments
- Conservative reconstruction of the endodontically treated teeth

### RECOMMENDED READING

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### Student Work Assessment – number of points for individual activity

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<td>12.</td>
<td>dr Tatjana Vukadinov</td>
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Head of the Department
Prof. Dr Đorđe Petrović
# MAXILLOFACIAL SURGERY (StV-MFHIR)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated dentistry studies</th>
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<tr>
<td>DEPARTMENT</td>
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## Condition: Oral surgery

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Methods of teaching: Teaching and practice in block system

## GOAL
1. Mastering knowledge and skills of clinical examination and establishing preliminary diagnosis of the diseases of oral cavity, head and neck.

## KNOWLEDGE
- Identifying of the most common diseases of oral cavity, head and neck.

## SKILLS
- Examination of oral cavity organs, head and neck.
- Providing first aid to the patients with head and the neck trauma. Methods of the temporary immobilization. Haemostasis.
- Postoperative treatment of the patient in outpatient settings.

### Theoretical teaching - methodical units
- Injuries of the maxillofacial region (soft tissues, fronto-ethmoidal bone, mandible, maxilla, zygomatic bone) - diagnostics, clinical features and therapy.
- Cysts of the soft and bone tissues of the oral cavity, head and neck and expansive processes of the jaws - diagnostics, clinical features and therapy.
- Infections of the soft and bone tissues of the jaws, head and neck - odontogenic and nonodontogenic - diagnostics, clinical features and therapy.
- Diseases of the temporomandibular joint.
- Neuralgia of trigeminal nerve and other painful conditions in maxillofacial area.
- Tumors (benign tumors of the mouth, head and neck, premalignant lesions and cancers of the face skin, melanoma, malignant tumors in the oral region and lips, malignant tumors of maxillary sinus, metastasis in the region and staging of the malignant tumors) - diagnostics, clinical features and therapy.
- Infections of the salivary glands (acute and chronic inflammations, sialolithiasis, fistula of the salivary glands, benign proliferative processes, benign and malignant tumors) - diagnostics, clinical features and therapy.
- Clefts (definitions, classification, embryology and etiopathogenesis, clinical features, therapy, rehabilitation.
- Deformities of the face and jaws (diagnostics, classification, mandibular deformities (progeny, microgeny, laterogeny...), maxillary deformities (prognathism, micrognathism), apertognathia, other deformities) - diagnostics, clinical features and therapy.
- Preprosthetic surgery.
- Basics of the reconstructive, restorative and esthetic surgery.

### Practical teaching - methodical units
- Examination of the mouth and dental apparatus.
- Diagnostics of the benign and malignant tumors.
- Diagnostics and therapy of the patients with head and neck infection.
- Diagnostics and therapy of the patients with the disease of the salivary glands.
- Diagnostics and therapy of the painful conditions in dentistry and maxillofacial surgery.
- Postoperative treatment of the patient in ambulance conditions.

## RECOMMENDED READING
### Compulsory

### Optional
1. Fonseca – Maxillofacial surgery
2. Word Boot – Maxillofacial surgery
3. Petersen’s Principles of Oral and Maxillofacial surgery

## Student Work Assessment – number of points for individual activity

<table>
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<tr>
<td>1. Prof. dr Miroslav P. Ilić</td>
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<tr>
<td>2. Prof. dr Aleksandar Kiralj</td>
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Head of the Department
Prof. dr Miroslav P. Ilić
49. MAXILLARY ORTHOPEDICS II (StV-ORVIL)

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<tr>
<th>STUDY PROGRAM</th>
<th>Integrated Studies of Dentistry</th>
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Condition: Orthodontics I

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Methods of teaching
Teaching is in the form of lectures, demonstrative and practical preclinical and clinical Pract.

GOAL
The objective of the course in Orthodontics II is to acquaint students with procedures and measures for establishing complete diagnosis of orthodontic anomalies, treatment stage planning according to the established diagnosis, general principles of orthodontic treatment and application of diverse orthodontic equipment depending on patient’s age and psychical maturity. Mastering abilities of critical thinking and linking different basic and advanced diagnostic methods with an aim of training future dentists to establish reliable and timely diagnosis in view of orthodontic patient triage.

Defining the most appropriate development stage and methods of preventive action against dysgnathia or appropriately indicate the orthodontic treatment to provide better functionality of the orofacial system and facial appearance, thus contributing to improvement of general physical and psychical health.

PURPOSE
Knowledge
- Possibilities of prevention and application of interceptive measures aimed at preventing the development and aggravation of orthodontic impairments
- Basic principles in the therapy of orthodontic impairments
- Therapeutic capacities of particular orthodontic apparatuses

Skills
- Taking anatomical imprints
- Establishing morphological and functional diagnosis on the basis of clinical examination
- Establishing of final diagnosis after completing diagnostic procedures and analyzing the findings
- Planning of orthodontic therapy
- Conducting orthodontic therapy using various orthodontic apparatuses
- Application of preventive and interceptive measures
- Interdisciplinary approach in treating severe orthodontic impairments

Theoretical teaching - methodical units

- Introduction to orthodontic records, medical documentation
- Medical history (importance in orthodontics) since birth to the moment of examination; family history
- Present status - general: height, body weight, potential bone deformities, etc.
- Present status – local: extraoral, morphological analysis of the face while still and in occlusion
- Functional examination
- Present status – local: intraoral, general features of milk and permanent teeth and tooth lines, shape, position, size of the tongue, incisor relationship in sagittal and vertical plane in space, mid-point of tooth line
- Prevention, interceptive orthodontics
- General causal therapy
- Biological principles of teeth displacement – response of soft tissues to relevant stimuli
- Extraction therapy – systematic, compensatory, compromising
- Active mobile apparatuses – parts, role of labial arch
- Elastic wire elements – springs, screws, bow (ridge)
- Basic elements of functional apparatus – monoblock, reduced activators, vestibular plane
- Basic elements of functional apparatus – bionator acc. to Balters, function regulator acc. to Frankel, propulsor
- Fixed apparatuses – combination of mobile and fixed treatment
- Impairment therapy in the period of mixed and permanent dentition in transversal direction
- Therapy of impairments of teeth and jaws in sagittal direction
- Therapy of impairments of teeth and jaws in vertical direction
- Retention of the obtained therapy outcome, mouth hygiene and hygiene of the apparatus during therapy
- Interdisciplinary cooperation - therapy
**Practical teaching - methodical units**

- Medical history
- General and local extraoral clinical examination (body constitution, shape of the head and face, assessment of vertical and sagittal face esthetics, biometric field)
- Intraoral clinical examination, assessment of occlusal relationships, determining dental status and age
- Functional analysis (breathing, mastication, swallowing, speech, movements, lip position, determining the position of physiological inactivity and interocclusal distance)
- Analysis of X-ray scans in orthodontics (orthopantomogram, teleroentgen profile of the head, rtg of the hand, parallax system, bite scans)
- Reading and interpretation of diagnostic findings, establishing final diagnosis and therapy planning
- Performing complete diagnostic procedure in patients with diverse orthodontic impairments
- Taking imprints and individual bite in wax mould, medical history, determining the extraoral and intraoral findings
- Functional examination
- Analysis of study models, RTG scans
- Establishing of final diagnosis and therapy planning
- Delivery of active mobile apparatus
- Control examinations and monitoring of the patient. Admission and examination of new patients.
- Clinical-functional examination and analysis of study models and RTG scans of patients - candidates for functional therapy and establishing the diagnosis
- Therapy plan and obtaining construction bite mould
- Delivery of functional apparatus (monoblock) to new patients and control of former patients
- Processing of patients – candidates for therapy with fixed orthodontic apparatus
- Mounting fixed apparatus and monitoring of the therapy
- Practicing identification of diverse orthodontic impairments in sagittal, transversal and vertical plane; treatment possibilities
- Introduction to preventive and interceptive measures at different age (serial extraction, application of spatula, myofunctional exercises, confection and individual vestibular plates, myofunctional appliances)
- Indications for interdisciplinary cooperation in the diagnostics and treatment of severe deformities of the face and jaws (cleft lip, cleft palate, progeny, skeletal open bite, gothic palate, speech disorders)
- Consultations related to particular topics

### RECOMMENDED READING

**Mandatory**


**Further**


### Student Work Assessment – number of points for individual activity

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### List of Teachers and Associates

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<th>Lecturer</th>
<th>Assistant Prof.</th>
<th>Associate Prof.</th>
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</table>

1. Prof. dr Branka Vukić-Ćulafić
2. Prof. dr Đorđe Petrović
3. Doc. dr Predrag Vučinić
4. Asist. dr Stojan Ivić

Head of Department
Prof. dr Đorđe Petrović
## 50. DENTAL CARE OF PATIENTS WITH SPECIAL NEEDS (StV-SZOPP)

<table>
<thead>
<tr>
<th>STUDY PROGRAM</th>
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### Methods of teaching
- Lectures, clinical practice at the faculty and out-patient departments in the field (schools and inpatient clinics for people with special needs)

### GOAL
- Acquiring practical knowledge and skills necessary for apprehension about characteristics of oral pathology, most common cases and diseases of people with special needs. Introducing to characteristics and basic principles of dental care for these patients.

### PURPOSE
- Knowledge
  1. Knowledge of epidemiological and socio-economic characteristics of this patient category in our population.
  2. Knowledge of medical aspects of dental protection of people with special needs.
  3. Knowledge of specific oral pathology in most common cases and diseases of people with special needs.
  4. Knowledge of prophylactic measures that can be applied to these patients (according to categories).
  5. Introducing to characteristics of out-patient work and possibilities to work in i. v. and inhalation sedation.
  6. Introducing to characteristics of working in total anesthesia.
  7. Knowledge of legislation in dental protection of disabled people and obligations of health-care workers (dentists) to them.
  8. Knowledge of most common kinds of disability.
- Skills
  1. Taking positive attitude about people with disability (accepting and understanding of their needs and abilities).
  2. Skill at establishing communication with people with disability.
  3. Capability to perform examination and make therapy plan.

### SUBJECT CONTENT
- Theoretical teaching - methodical units
  - Goal and importance of the course, characteristics of oral pathology in people with special needs.
  - Psycho-social aspects of dental protection for people with special needs. Types of disability, possibility of dental treatment.
  - Prevention of oral diseases in people with special needs.
  - Prevention of oral diseases in people with special needs – prophylaxis of oral diseases.
  - Orthodontic treatment of persons with severe craniofacial abnormalities.
  - Premedication and sedation of people with special needs.
  - Dental management of patients in total anesthesia.
  - Rehabilitation of patients with special needs with mobile dentures.
  - Rehabilitation of patients with special needs with fixed dentures.
- Practical teaching – methodical units
  - Introduction to the specificities of dental management of patients with special needs, types of disability, communication capability, dental work in out-patient treatment settings.
  - Admission and examination of patients with special needs, management planning, practical performance (outpatient practice).
  - Oral hygiene – selection of devices and techniques for maintaining oral hygiene in patients with special needs. Patient and parent training in proper oral hygiene maintenance.
  - Outpatient treatment of high-risk patients.
  - Dental management of patients in total anesthesia.
  - Mobile orthodontic apparatus in patients with cleft jaw and cleft palate.
  - Fixed orthodontic apparatus in patients with severe abnormalities.
  - Outpatient work in the field (schools and inpatient clinics for people with special needs).

### RECOMMENDED READING
- Mandatory
  1. Dental Care of the Medically Complex Patient, By Peter B. Lockhart, June H. Nunn, John G. Meechan. Published 2004 Elsevier Health Sciences
  2. Special Care Dentistry Author(s)/Editor(s): Fiske, Janet / Dickinson, Chris / Boyle, Carole / Rafique, Sobia / Burke, Mary. Quintessence Publishing
- Further

### Winter term
- Lectures 2, Practice 0
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- Number of tests: -
- Number of seminars: -
- Number of POINTS: 1, 0
### Student Work Assessment – number of points for individual activity

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### List of Teachers and Associates

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<tr>
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1. **Doc. dr Bojan Petrović**
2. **Prof. dr Duška Blagojević**
3. **Doc. dr Sanja Vujkov**

Head of Department  
Prof. dr Đorđe Petrović
51. FORENSIC MEDICINE (StV-SED)

<table>
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Methodology

AIM

The main aim of the education in Forensic Medicine is getting students acquainted with the elements of protection of physical and psychical integrity of each person, and mutual connection between medicine and law. It is necessary inform the student on legal position of dentistry practice, as well as the ethic and legal responsibility of medical professionals. Mastering skills for practical application of the acquired theoretical knowledge. Development of critical thinking and abilities for the research work.

PURPOSE

knowledge
Introducing to students the ways of natural and violent health damage. Legislation pertaining to that field and the ways of solving possible problems. Obligations and rights in case of death of patients. Legislation on professional responsibility. The use of sophisticated technology in forensic medicine and their application in research work.

SKILLS
Practical application of skills: The examination of the injured, qualification and classification of the injury. Issuing of medical reports: the medical reports on injuries. Taking samples for the criminological, genetic and toxicology expertise. Gaining skills for making the expert analysis given in court. Skills for examination of the dead establishing the cause and the time of death. Identifying the person-the role of the dentist. Application of synthesis and analysis in the establishing the cause and effect correlations on the basis of (injury or disease)- secondary status-the final biological cause (the terminal cause of death).

CONTENTS OF SUBJECT:

Theoretical teaching - methodical units

1. The short history overview of forensic science. Definition of forensic medicine and its objectives. The relation with other medical disciplines and the close scientific disciplines- the relation between medicine and law.
2. Definition of health damage- natural or violent Forensics aspect of natural death. Classification of the body injury according to the valid NOKSA. The relation between the injury and personal aspects of the injured- Morbid injury and traumatic decrease.
3. The death and dying. Forensic classification of death. The brain death- organ and tissue transplantation. Medical and law matters considering the organ and tissue transplantation.
5. The reactions of the body to the injury. The vital, agonal and posthumous injuries. Embolism. Shock.
10. Drug addiction- opiates psycho stimulus, hallucinogens.
11. Ethyl alcohol as the forensic problems. CRC.
15. Forensics expert and forensics expertise, law principles in forensics expertise.
16. Qualification of body injuries. Laws and principles of forensics. Expertise of non-material injuries(pain, fear and decrease of living activities)
17. Legal aspects of medicine. Medico legal aspects during the medical intervention.

Practical teaching - methodical units

*Classes of practice are conducted as a one week practice period during each semester.
1. Getting familiar with the contents of Forensics institute.
2. Work in autopsy surgery.
3. a. Examination of the dead. Identification. Establishing the time and the cause of death.
4. b. Description of the particularities and the changes of corpse.
5. c. Examination and description of injuries.
7. Medical crimes: expert analysis of biological traces. DNA analysis, controversial paternal authority.
8. Work in chemical-toxicological laboratory. Learning the possibilities of working with the gas and liquid chromatograph and UV spectrometer in toxicological identification of drugs. Methodology of expertise of the state of alcohol consuming.
10. Double position video bim- overview of properties and various(mechanical, physical etc.) injuries of the corpse.

3. Simić M.: "Test pitanja iz Sudske medicine". Medicinski fakultet Novi Sad

**RECOMMENDED READING**

<table>
<thead>
<tr>
<th>Compulsory</th>
<th>Additional</th>
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### Student evaluation – no. of points for each activity

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<td>6. Doc. dr Igor Veselinović</td>
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<td>7. Doc dr Vladimir Pilija</td>
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<td>10. As. Padosav Radosavkic</td>
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</table>

\(^1\)Seminar paper is not obligatory (according to the student’s wish).

\(^2\)If the student did not do seminar paper.

The Head of the Department
Prof. Dr Goran Stojičković
52. NANOSTRUCTURED BIOMATERIALS IN DENTISTRY (StV-IZPR)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
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**Year of studies**

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**Methods of conducting teaching**

The aim of this course is to acquaint students with modern nanotechnologies, new diagnostic and therapeutic possibilities enabled by novel accomplishments of nano-science and nanotechnology in the field of dentistry, as well as providing insight into the specificities of nanostructured biomaterials and nano-devices.

**Theoretical teaching – methodical units**

1. Nanoscience and nanotechnologies – definition, history, technological revolution, multidisciplinary approach, importance
2. Nanotechnology from basic to applied science-nanomaterials, nanometry, electronics, optoelectronics, information and communication technology, bionanotechnology and nanomedicine.
3. Nanoparticles – production process (methods of synthesis of nanoparticles), direct molecular synthesis and connectivity, the unique physical and chemical properties, the problems of controlling the properties of nanoparticles
4. Nanomedicine definitions, scope of application, accomplishments in various branches of medicine
5. Nanomedicine-targeted delivery of drugs, pharmacokinetics and pharmacodynamics of nanoparticles, the potential side effects
6. Nanomedicine-tech., manipulation at the atomic and molecular level, molecular medicine
7. Nanomedicine-targeted delivery of genetic material, anti-cancer potential
8. Nanomaterials - physico-chemical, mechanical, optical, electrical, thermal properties of nanomaterials
9. Nanostructured biomaterials in dentistry - unique features, biomimetic approach - matching the natural structure and properties of biological materials, nano-coatings, current research
10. Nanostructured biomaterials in dentistry - applications in different industries, nanocomposites, surface nano modification of dental implants, and nano scaffolds and nanomembranes for guided tissue regeneration, ceramics reinforced with nanoparticles, remineralization with nanoparticles, the potential applications of nanorobots
11. Methods for characterization of nanomaterials in dentistry - microscopic techniques (scanning tunnel microscopy, atomic force microscopy, transmission microscopy), nanoindentation and related techniques of characterization
12. Environment protection - aspects of the impact of nanoparticles on ecosystems
13. Guidelines on the protective measures when working with nanomaterials, measurement of pollution and toxic potential, the need for systematic regulation
14. Social and ethical considerations
15. The potential impact on science and practice in the future

**Practical teaching – methodical units**

Practical instruction is closely linked with the lectures encompassing visits to relevant departments, clinics and laboratories of the Faculty of Medicine to learn about characterization and application of nanotechnology in biomedicine and dentistry, as well as discussions on current accomplishments in the field of application of nanotechnology in dentistry.

**RECOMMENDED READING**

**Compulsory**


**Additional**

1. Goran Stojanović “Nanoelektronika i primena nanomaterijala” Novi Sad, Fakultet tehničkih nauka, b2012

**Evaluation of students’ work – Points per individual activity**

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<th>Lectures</th>
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**List of teachers and Assistants**

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<tr>
<th>Associate</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>Assist. Prof.</th>
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<td>3.</td>
<td>Prof. dr Dubravka Marković</td>
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<td>8.</td>
<td>Asist. dr Ivana Kantežič</td>
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Head of the Department
Prof. dr Đorđe Petrović
52. BASICS OF PERIODONTAL SURGERY (StV-IZPR)

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Methods of conducting teaching: Theoretical and practical teaching

Goal

The aim of this course is to acquaint students with options of surgical treatment and therapy modalities offered by modern periodontal surgery.

Knowledge

Acquiring knowledge on diverse therapy procedures in the field of surgical treatment or parodontopathy.

Skills

Acquiring basic knowledge and manual skills in handling surgical instrumentation by working on models, attending and assisting during surgical procedures.

CONTENT OF THE SUBJECT

Theoretical teaching – methodical units

- Indications and contraindications for surgery
- Types of surgical procedures on affected periodontium
- Resection methods for the elimination of periodontal pockets
- Regenerative surgical methods for the elimination of periodontal pockets
- Guided tissue regeneration
- Surgical methods for the elimination of mucogingival anomalies
- Cosmetic periodontal surgery
- Periodontal surgery in pre-prosthetic preparation of the patient
- Complex periodontal-implant therapy
- Complications of periodontal surgery
- Outcome of surgical treatment and maintenance of the results

Practical teaching – methodical units

- Introduction to periodontal surgery;
- Indications and contraindications for surgery;
- Instruments and materials in periodontal surgery;
- Preoperative preparation of the patient;
- Surgical stitches and suture techniques. Working on models;
- Passive or active participation in surgical procedures

RECOMMENDED READING

Compulsory


Additional

1. J. Lindhe: Klinička parodontologija i oralna implantologija. Zagreb, 2004

Evaluation of students’ work – Points per individual activity

<table>
<thead>
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<th>Lectures</th>
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</table>

1. Doc. dr Milanko Đurić
2. Ass. Jelena Mirnić
3. Ass. Ivana Gušić
4. Ass. Tanja Predin

Head of the Department
Prof. dr Đorđe Petrović
52. RISK DISEASES IN DENTISTRY (StV-IZPR)

<table>
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<tr>
<th>STUDY PROGRAM</th>
<th>Integrated studies in dentistry</th>
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AIM

Acquiring knowledge on risk diseases and conditions in the field of oral pathology.

PURPOSE

KNOWLEDGE

Management of oral pathology by working in a multidisciplinary team composed of the dentist and other specialists in medicine and dental medicine. Mutual creation of protocol procedures for team-based care that would provide minimum risk for the patient

SKILLS

Theoretical teaching - methodical units

1. **Introduction.** Definition of risk patient in dentistry. Legal and medical aspects of work with high-risk patients in dental medicine.
2. **Infectious deceases and dentistry.** Hepatitis, HIV; Protection of medical staff, disposal of used instruments and sterilization procedures. Medical waste disposal. Protective equipment. Post-exposure prophylaxis.
3. **Manifestations of infectious deceases in the mouth.** Hepatitis, HIV, syphilis, herpes; Clinical features and diagnosis; Specific treatment of oral diseases; Consultation and planning further dentistry procedures.
4. **Patients with drug allergies.** Diagnosis of allergy; Allergy to local anesthetics, preservatives, acrylic and other materials used in dentistry; protocol of working with patients allergic to local anesthetics.
5. **Allergies and immunology deceases of the oral cavity.**
6. **Premalignant lesions in the maxillofacial region.** Clinical features, diagnosis, early identification, treatment and the course of the disease.
8. **Patients with cardiovascular deceases.** Working protocols, methods and procedures of management.
9. **Haemostatic disorders.** The patients receiving anti-coagulation treatment; Hemophilia; Thrombocytopenia; Liver diseases; Patients on dialysis
11. **Patients with special needs.** Specificities of working under general anesthesia and specificities of dental procedures.
12. **Patients with endocrinological disorders.** Thyroid gland disorders, insulin dependent diabetes.
13. **Patients with diabetes.** Specificities of oral surgery planning in most complicated cases.
14. **Psychical disorders, addictive diseases.**
15. **Risk pregnancy.**

Practical teaching - methodical units

Demonstration of patients with risk deceases.

RECOMMENDED READING

**Compulsory**
1. Jovanović G i sar Problematika bolesti rizika u stomatološkoj praksi Niš 2001

**Additional**

Student evaluation – no. of points for each activity

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<thead>
<tr>
<th>Lectures</th>
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List of professors and assistants

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<tr>
<td>Doc dr Branislav Bajšin</td>
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The Head of the Department
Prof. dr Đorđe Petrović
52. CLINICAL GNATHOLOGY (StV-IZPR)

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**Content of the Subject:**

**GOAL**

Objective of the course: mastering the diagnostics and treatment options in temporomandibular dysfunction, learning methodologies of reversible occlusal therapy and the basic principles of occlusal balancing by selective grinding.

**Knowledge**

Knowledge on functional analysis of orofacial complex, evaluation of occlusion complex status, occlusion therapy, tooth abrasion and malocclusions.

**Skills**

Skills in diagnostic principles and therapy of temporomandibular dysfunctions, selective grinding and creation of stabilization splints.

**Theoretical teaching – methodical units**

1. Functional analysis of the orofacial complex, importance, methods, scope of analysis
   - medical history
   - examination of the head, face and jaw
   - examination of TMJ and orofacial muscles, palpation, auscultation, functional tests
   - testing the range and uniformity of mandibular movements

2. Evaluation of occlusion complex status
   - examination of the occlusion complex
   - clinical and radiographic evaluation of the health status of the remaining teeth, caries, abrasion, periodontal disease, tooth loss
   - analysis of the position and continuity of the occlusal plane
   - analysis of the contact relationships of teeth in the intercuspal position and in eccentric contact movements of the mandible
   - occlusion indicators (markers), types, methods
   - identification of premature contacts and occlusal interferences

3. Analysis of intermaxillary relationships
   - determining the position of physiologic rest of the mandible, patient preparation, methods
   - determining of mid-point position of the mandible, patient preparation, methods
   - recording of the mid-point position of the mandible, importance, methods, materials
   - evaluation of the current intercuspal position of the mandible
   - analysis of mandible guidance in eccentric positions

4. Symptoms and signs of non-physiological activity of the orofacial system, traumatic occlusion, occlusal interference, the effects of occlusal interference, muscle hyperactivity, myalgia, arthralgia, parafunctions of the orofacial system, temporomandibular disorders, epidemiology, signs and symptoms, diagnostics

5. Occlusion therapy
   - modalities, objectives, plan of the occlusion therapy
   - reversible occlusal therapy, indications, types of splints
   - creation of Michigan (stabilization) splint
   - prognosis and the importance of reversible occlusal therapy

6. Irreversible occlusal therapy (IOT)
   - modalities, objectives, plans, indications
   - determinants of occlusal morphology during irreversible occlusal therapy

7. Selection of the occlusion model during irreversible occlusal therapy
   - model of balanced occlusion
   - model of mutually protected occlusion
   - selection of reference position of the mandible during IOT, type of central occlusal contacts, tooth contact ratio of the eccentric movements of the mandible (selection of the optimal system of mandible guidance)

8. Irreversible occlusal therapy - selective grinding, definitions, methods, target of selective grinding, indications, plan of selective grinding
   - elimination of defective contacts in a central position
   - establishing optimal system for mandible guidance by selective grinding
   - elimination of protrusive, laterotrusive and mediotrusive interferences
   - instruments and materials used in selective grinding

9. Etiology, pathology and treatment of tooth abrasion

10. Irreversible occlusal therapy, occlusal restorations using fillings, occlusal restoration using fixed and mobile dentures

11. Principles of occlusal therapy in patients with malocclusions

**Methods of teaching**

theoretical and practical
Practical teaching – methodical units

1. Functional analysis of the orofacial complex
   Demonstration and student work on a patient history
   examination of the head, face and jaws
   examination of temporomandibular joints, palpation, auscultation, X-ray images
   examination of orofacial muscles, palpation, functional tests
   testing/measurement of the range and uniformity of mandibular movements (the data are filled into a special questionnaire)
   recording of signs (symptoms) of craniomandibular dysfunction

2. Evaluation of the status of the occlusion complex
   examination of the upper and lower dental arches
   x-ray analysis
   recording of missing teeth
   registering tooth contact with the antagonist, carious teeth, teeth with fillings, presence of dental restorations, presence of abrasion facets, mobility of the remaining teeth (the data are entered into a special questionnaire)

3. Analysis of tooth contact ratio
   occlusion markers, types, colors, instruments
   analysis of occlusal contacts in a central position and intercuspal position, identification of deflective contacts in a retruded contact position of the mandible and premature contacts in the intercuspal position
   analysis of mandible guidance in an eccentric position, type of the guidance determined by protrusion, guidance by lateral movement
   identification of prosthetic, lateocclusal and medioocclusal disorders on models in the articulator in patient’s mouth (the data are entered into a special questionnaire), imprints of the upper and lower jaw

4. Creation of stabilization (Michigan) splint in patients with TMD
   transferring models into the articulator, demonstration of making of splint
   modeling of Michigan splint in the articulator (demonstration and student work)
   delivery and adaptation of the Michigan splint

5. Selective grinding
   identification of occlusal interferences in the mouth and in the articulator
   selective grinding in the articulator
   selective grinding in the mouth (demonstration and student work on the patient)

6. Planning irreversible occlusion therapy
   selecting a reference position of the mandible
   selecting occlusion model, extent of reconstructive intervention, type of reconstructive interventions (information is entered into a special questionnaire)

RECOMMENDED READING

<table>
<thead>
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<th>Compulsory</th>
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Additional Evaluation of students’ work – Points per individual activity

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List of teachers and Assistants

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1. prof. dr Dubravka Marković
2. Doc dr Bojana Milekić
3. Doc. dr Branislava Petronijević
4. Asist. dr Aleksandra Maletin
5. Asist. dr Milica Jeremić Knežević

Head of the Department
Prof. dr Đorđe Petrović
# 52. MOUTH AND DENTAL INJURIES IN CHILDREN (StV-IZPR)

<table>
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<th>STUDY PROGRAMME</th>
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<tr>
<th>Methods of teaching</th>
<th>theoretical and practical</th>
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<tr>
<td>GOAL</td>
<td>Objective of the course: Getting students acquainted with characteristics, etiology and epidemiology of teeth and mouth injuries in children and with diagnostics and treatment of teeth injuries in children.</td>
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</tbody>
</table>

Knowledge

- Knowledge of the characteristics, prevalence, importance of orofacial injuries, knowledge of classification, epidemiology, etiology of orofacial injuries. Knowledge of the Protocol for injury management and diagnostic methods and techniques as well as the treatment of soft and hard tissue and the treatment of supporting dental tissues and complications of traumatic dental injuries

Skills

- Admission and examination of children with teeth injuries. Diagnostics in children with teeth injuries; analysis and interpretation of X-ray scans; Therapy plan.

**Theoretical teaching – methodical units**

1. Injuries of the orofacial area, the mouth and teeth in children; Characteristics; Importance
2. Classification of mouth and tooth injuries in children
3. Protocol for the treatment of wounds
4. Etiology of oral and dental injuries
5. Epidemiology of oral and dental injuries
6. Methods for diagnosing of oral and dental injuries in children
7. Soft tissue injuries and mouth treatment
8. Injuries of dental hard tissues
9. Treatment of hard dental tissue injuries
10. Injuries of periodontal tissues
11. Treatment of periodontal tissue injuries
12. Complications of tooth injury
13. Restoration of injured teeth in children
14. Emergency conditions in orofacial trauma
15. Current trends in the management of traumatic dental injuries

**Practical teaching – methodical units**

1. Introductory exercise: the importance of studying traumatic dental injuries in children; a brief overview of the etiology and epidemiology
   - Traumatic dental injuries in children
2. Introduction to medical records related to dental injuries
3. Classification of traumatic dental injuries in children
4. The procedure at first visit; examination; medical history
5. Materials and tools in the treatment of oral and dental injuries
6. Getting acquainted with the X-ray diagnostics in teeth and mouth injuries
7. Treatment of soft tissue injuries; training in working with surgical instruments
8. Treatment of hard tissue injuries: fractures of class 1 and 2
9. Treatment of hard tissue injuries: fractures of Class 3 and 4; build-up of endodontically treated teeth
10. Treatment of periodontal tissue injuries: contusions, subluxation; making splints on the model
11. Treatment of periodontal tissue injuries: lateral luxation, intrusion, extrusion, avulsion; making splints on the model
12. Conditionally permanent solutions: adhesive bridges
13. Conditionally permanent solution: partial plate dentures
15. Presentation of IADT (International Association for Dental Traumatology)of the Internet guidelines for injuries management

**RECOMMENDED READING**

- Beloša D, Vulović M, Dugaj M. Povrede zuba, Beograd 2007
- Povrede zuba – vodič za svakodnevnu kliničku praksu, Đ. Marković i saradnici, 2012

**Evaluation of students' work – Points per individual activity**

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final exam</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>Pract.</td>
<td>Colloquium</td>
</tr>
<tr>
<td>30</td>
<td>15</td>
<td>20</td>
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</table>

**List of teachers and Assistants**

<table>
<thead>
<tr>
<th>Associate</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>Assistant Prof.</th>
<th>Associate Prof.</th>
<th>Full Professor</th>
<th>Scientist</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0</td>
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</tbody>
</table>

Head of the Department
### 52. CLINICAL TOXICOLOGY (StV-IZPR)

<table>
<thead>
<tr>
<th>STUDY PROGRAMME</th>
<th>Integrated studies in dentistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEPARTMENT</td>
<td>Department of pharmacology, toxicology and clinical pharmacology</td>
</tr>
<tr>
<td>NAME OF SUBJECT</td>
<td>CLINICAL TOXICOLOGY</td>
</tr>
<tr>
<td>STATUS OF THE</td>
<td>Optional</td>
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</table>

#### Year of studies

<table>
<thead>
<tr>
<th>Methods of teaching</th>
<th>Winter term (hrs/week)</th>
<th>Summer term (hrs/week)</th>
<th>No. of tests</th>
<th>No. of seminars</th>
<th>ECTS credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures, Practical work</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>/</td>
</tr>
</tbody>
</table>

#### Knowledge

Students will acquire knowledge of the basic properties of toxins, mechanism of intoxication of the body, critical measures aimed at prevention of intoxication and treating poisoned patients.

#### Skills

- Application of theoretical knowledge: the principles of resuscitation of acutely poisoned patients, methods of preventing penetration of toxins into the body, methods of natural and artificial detoxication, symptomatic and antidote therapy.

#### Goals

- The main objective of the course in clinical toxicology is to get students acquainted with pathways of toxins entry into the body, the basic physical and chemical properties of toxins, toxicokinetics and toxicodynamics of poisons, prevention and treatment of acute and chronic poisoning. The development of critical thinking and competences for scientific research.

#### GOAL

- Toxins: introduction to the subject, the importance of toxicology, the definition of poison, chemical structure and toxicity, exposure and portals of toxin entry into the body.
- Methods of teaching: lectures, practical work.

#### Methods of teaching

- Lectures: Practical work: introduction to methods of diagnosis, prevention and treatment of acutely and chronically intoxicated patients; introduction to the work in the toxicological laboratory, the principles of good laboratory practice, sample handling and analysis of xenobiotics in various samples.

#### Content of the subject

<table>
<thead>
<tr>
<th>Theoretical teaching – methodical units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. A brief historical overview, the importance of toxicology, the definition of poison, chemical structure and toxicity, exposure and portals of toxin entry into the body.</td>
</tr>
<tr>
<td>3. Types of poisoning, toxic and lethal doses, accumulation of toxins, adaptation to toxins, factors that influence the toxicity.</td>
</tr>
<tr>
<td>5. Genotoxicity.</td>
</tr>
<tr>
<td>6. Carcinogenesis.</td>
</tr>
<tr>
<td>7. Acute poisoning with drugs for treating mental and nervous disorders and neurotoxic toxins.</td>
</tr>
<tr>
<td>8. Acute poisoning with drugs for treating cardiovascular system and cardiotoxic toxins.</td>
</tr>
<tr>
<td>9. Acute poisoning with drugs for treating respiratory system, digestive system, endocrine system.</td>
</tr>
<tr>
<td>10. Acute poisoning with drugs and poisonous affecting blood diseases and blood-forming organs, metabolism and nutrition, which act on the immune mechanisms, infectious and parasitic diseases.</td>
</tr>
<tr>
<td>11. Effects of drugs and toxins on the reproductive system and skin.</td>
</tr>
<tr>
<td>12. Acute poisoning with opioid drugs, acute intoxication with drugs acting on the diseases of musculo-skeletal and connective system.</td>
</tr>
<tr>
<td>13. Pesticide poisoning: Pesticide - definition, basic features and precautions, classification of pesticides, biological test for determination of residues; contamination of food through plastic packaging.</td>
</tr>
<tr>
<td>14. Ethanol, methanol, trichloroethylene, benzene, chloroform, phenol, aniline, carbon disulfide, cyanide.</td>
</tr>
<tr>
<td>15. Poisoning with carbon monoxide, carbon dioxide, hydrogen sulfide, sulfur dioxide, chlorine, nitrogen, oxides, ozone; poisoning with acids and bases; heavy metal intoxication.</td>
</tr>
</tbody>
</table>

#### Practical teaching – methodical units

<table>
<thead>
<tr>
<th>Practical teaching – methodical units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CPR Cardiopulmonary resuscitation of acutely poisoned patients. Skills in establishing the airway clearance (deflection head position, triple grip, placement of oropharyngeal tube), clearance of the airways – manual or using the aspirator, placing the patient in comatose position, Heimlich grip, orotracheal intubation (4 hours).</td>
</tr>
<tr>
<td>2. Artificial maintenance of ventilation (mouth-to-mouth method, mouth-to-nose, mouth-to-mask, mouth-to-tube), the use of hand-held mechanical ventilation using an AMBU-bag through a mask, AMBU-method with the tube, application of mobile respirator. (4 hours).</td>
</tr>
<tr>
<td>3. Methods of maintaining artificial circulation (chest compressions, use of defibrillators in cardiac arrest), CPR techniques with a lifeguard, two rescuer CPR in acutely poisoned children, practicing techniques of peripheral and central venous line.</td>
</tr>
<tr>
<td>Medicamentos resuscitation of the acutely intoxicated patients (4 hours).</td>
</tr>
<tr>
<td>4. Prevention of per oral toxin entry in the body - provoking vomiting, nasogastric suction, application of activated charcoal, inducing forced laxation (2 hours).</td>
</tr>
<tr>
<td>5. Natural detoxification of the body - forced diuresis, forced ventilation, hyperbaric oxygenation (2 hours).</td>
</tr>
<tr>
<td>6. Artificial detoxification - peritoneal dialysis, hemodialysis, hemoperfusion, plasmapheresis (2 hours).</td>
</tr>
<tr>
<td>7. Prevention of toxins entry in the body via respiratory, dermal, iatrogenic pathway; proper detoxification methods (2 hours).</td>
</tr>
<tr>
<td>8. Antidote treatment of acutely and chronically intoxicated patients (2 hours).</td>
</tr>
<tr>
<td>9. Symptomatic and infusion therapy in acutely and chronically intoxicated patients (2 hours).</td>
</tr>
<tr>
<td>10. Diagnosis of poisoning - anamnestic, clinical and laboratory algorithms (4 hours).</td>
</tr>
<tr>
<td>11. Toxicology databases and importance of forensic toxicology (2 hours).</td>
</tr>
</tbody>
</table>
**RECOMMENDED READING**

**Compulsory**

V. Vasović, M. Mikov, K. Daković-Švajcer: „Odabrana poglavlja iz toksikologije“, Medicinski fakultet Novi Sad  
D. Joksović: “Akutna trovanja lekovima”, Beograd

**Additional**

Dreisbach: Trovanja priručnik- prevencija, djagnoza i lečenje. Data status- 13 izdanje

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### Evaluation of students' work – Points per individual activity

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final exam</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>10</td>
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### List of teachers and Assistants

<table>
<thead>
<tr>
<th>Associate</th>
<th>Assistant</th>
<th>Lecturer</th>
<th>Assistant Prof.</th>
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<th>Full Professor</th>
<th>Scientist</th>
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<tr>
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</tr>
</tbody>
</table>

1. Prof. dr Velibor Vasović Head Lecturer  
2. Prof. dr Momir Mikov  
3. Prof. dr Ana Sabo  
4. Prof. dr Zdenko Tomić  
5. Prof. dr Jovan Popović  
6. Prof. dr Aleksandar Rašković  
7. Prof. dr Isidora Samojlik  
8. Doc. dr Olga Horvat  
9. Asistent mr sc. med Saša Vukmirović  
10. Asistent dr med Boris Milijašević  
11. Asistent dr med Vesna Mijatović  
12. Asistent dr med Nebojša Stilinović

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Head of the Department  
Prof. dr Momir Mikov
### 52. EXPERTISE IN DENTISTRY (StV-IZPR)

**STUDY PROGRAMME** Integrated studies in dentistry

**DEPARTMENT** Department of dentistry

**NAME OF SUBJECT** EXPERTISE IN DENTISTRY

**STATUS OF THE** Optional

<table>
<thead>
<tr>
<th>Condition</th>
<th>Year of studies</th>
<th>Winter term (hrs/week)</th>
<th>Summer term (hrs/week)</th>
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<th>No. of seminars</th>
<th>ECTS credits</th>
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</table>

**Methods of teaching**
- theoretical and practical teaching,
- consultation and two expertise as the final exam

**GOAL**

**Objective of the course:** Mastering knowledge and skills that is necessary for dentists - expert in criminal and civil court proceedings, as well as providing evidence in court proceedings.

**Knowledge**
- Acquainting students with all the necessary knowledge of law, medicine and dentistry that are essential for the expertise.

**Skills**
- The method and procedure for examination of the patient aimed at providing the expert evidence required in the court proceeding.

**CONTENT OF THE SUBJECT**

**Theoretical teaching – methodical units**

1. Medical and legal documents in dentistry; Specific dental records and documents;
2. Dentist as a witness and the defendant in court;
3. Medico legal characteristics of dental procedures;
4. Medico legal specificities of specializations in dental medicine;
5. Mistakes in medicine/dentistry, complications in dental practice;
6. Providing and evaluating evidence - expertise in criminal procedure;
7. Examination of the victim in order to evaluate the severity of the injuries of maxillofacial region;
8. Providing and evaluating evidence - expert in civil legal proceedings;
9. Examination of the patient in order to determine the basis for compensation of non-pecuniary damage in the maxillofacial region;
10. The tasks of the expert (types of expertise);
11. Organization of the Courts of the Republic of Serbia;
12. Assessment and qualification of the severity of injuries of the maxillofacial region;
13. Types of non-pecuniary damages;
14. The expertise of the intensity of suffered pain in the maxillofacial region;
15. Expertise of disfigurement of the maxillofacial region;
16. The expertise of disability of the maxillofacial region;
17. Expert opinion on disability/disorder of normal activity;
18. Providing evidence of the claim against the dentist;

**Practical teaching – methodical units**

- Practical classes (preparation of seminar papers)
  1. Preparing the expert’s report pertaining to the severity of physical injury;
  2. Preparing the expert’s report pertaining to the non-pecuniary damage

**RECOMMENDED READING**

**Compulsory**
- Selaković S., Kvaal S., Nikolić D. i saradnici: Sudska stomatologija, pravni i medicinski aspekti. Službeni Glasnik, Pravni fakultet Novi Sad, 2013, u stampi
- Tasić i saradnici: Sudska stomatologija

**Additional**

**Evaluation of students’ work – Points per individual activity**

<table>
<thead>
<tr>
<th>Pre-exam obligations</th>
<th>Final exam</th>
<th>Total</th>
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<td>Lectures Pract. Colloquium Seminar paper Other</td>
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<td>0</td>
</tr>
</tbody>
</table>

1. **Prof. dr Srečko Selaković**
2. **Prof. dr Goran Stojiljković**

Head of the Department
Prof. dr Đorđe Petrović
53. FINAL (DEGREE) PAPER (StV-IZPR)

STUDY PROGRAM Integrated Studies of Dentistry

DEPARTMENT

SUBJECT FINAL (DEGREE) PAPER

STATUS OF THE SUBJECT Compulsory

Condition Passed all exams

<table>
<thead>
<tr>
<th>The year of studies</th>
<th>Winter term (No. of the lessons per week)</th>
<th>Summer term (No. of the lessons per week)</th>
<th>Number of pre-exam tests</th>
<th>Number of seminar papers</th>
<th>Number of POINTS</th>
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</thead>
<tbody>
<tr>
<td>fifth</td>
<td>Lectures Practice</td>
<td>Lectures Practice</td>
<td>-</td>
<td>-</td>
<td>20</td>
</tr>
</tbody>
</table>

Methodology

The aim of composing the final paper is that the future dentist:

✓ uses the knowledge acquired from the course "Introduction to research work" and experience gained though previous studies.
✓ applies the methodology of research work on specific problem.
✓ demonstrates that he is capable to apply methods for statistical analysis of data and present them by graphs and tables
✓ demonstrates the ability to find the necessary data by using the search engines designed for international and domestic biomedical database
✓ demonstrates the ability to present results of research work in written and oral form.

Knowledge Once the dentist has defended his final degree paper he is qualified for further research work, to publish it in scientific journals and to present his scientific observations and achievements.

The graduate students is a competent educator of medical staff in their continuing education

Skills

Theoretical teaching - methodical units

The application of final degree paper, its content, time, place and the process of defending it are regulated by special Regulations of final degree paper.

Practical teaching - methodical units

RECOMMENDED READING

Compulsory

Additional

Student evaluation – no. of points for each activity

<table>
<thead>
<tr>
<th>Pre-exam activities</th>
<th>Final exam</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>Practice</td>
<td>Pre-exam tests</td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

The board evaluates final degree paper by grading from 5 to 10, and positive grade (6-10) is a part of the overall grade point average of the student. Undefended final degree papers are graded 5.

List of professors and assistants

Associate Assistant Lecturer Assistant prof. Associate Prof. Full professor scientist

Mentor – professor

The Head of the Department